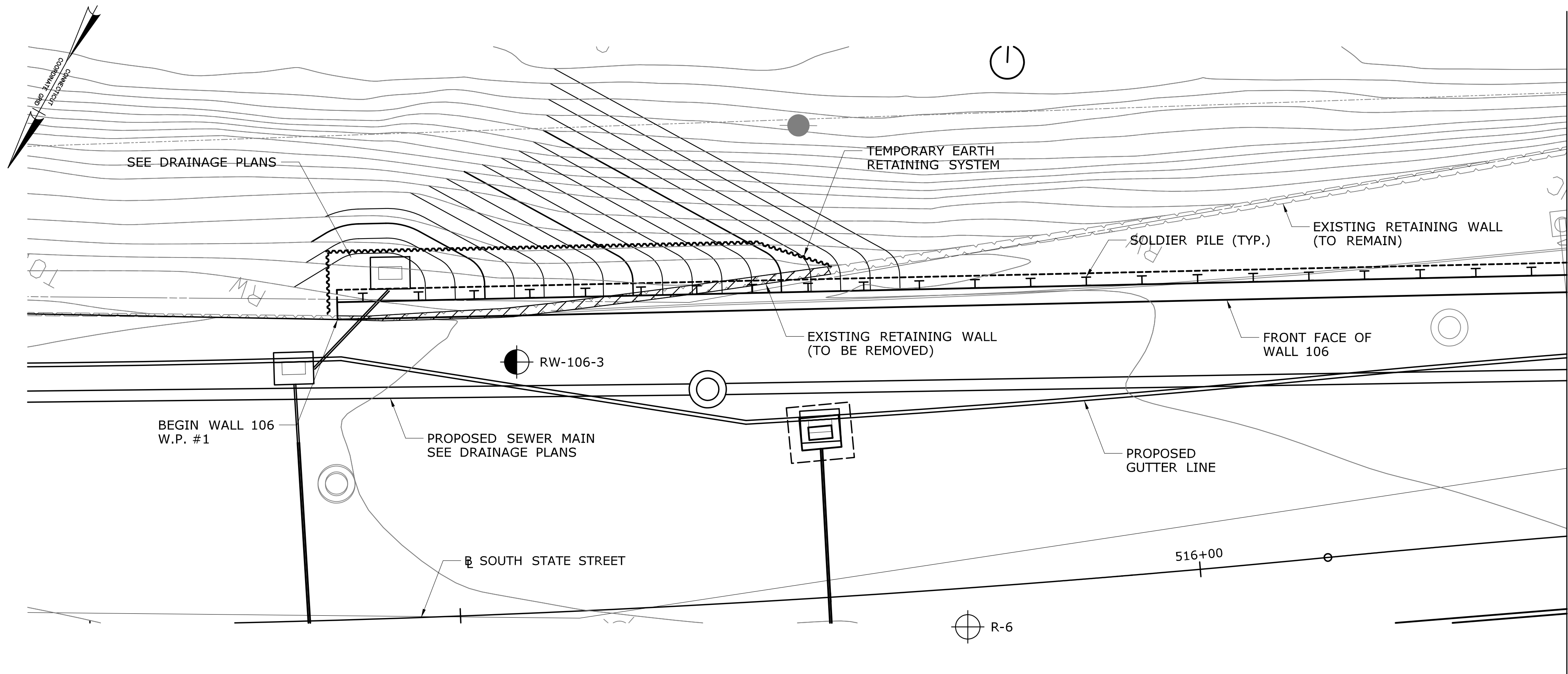


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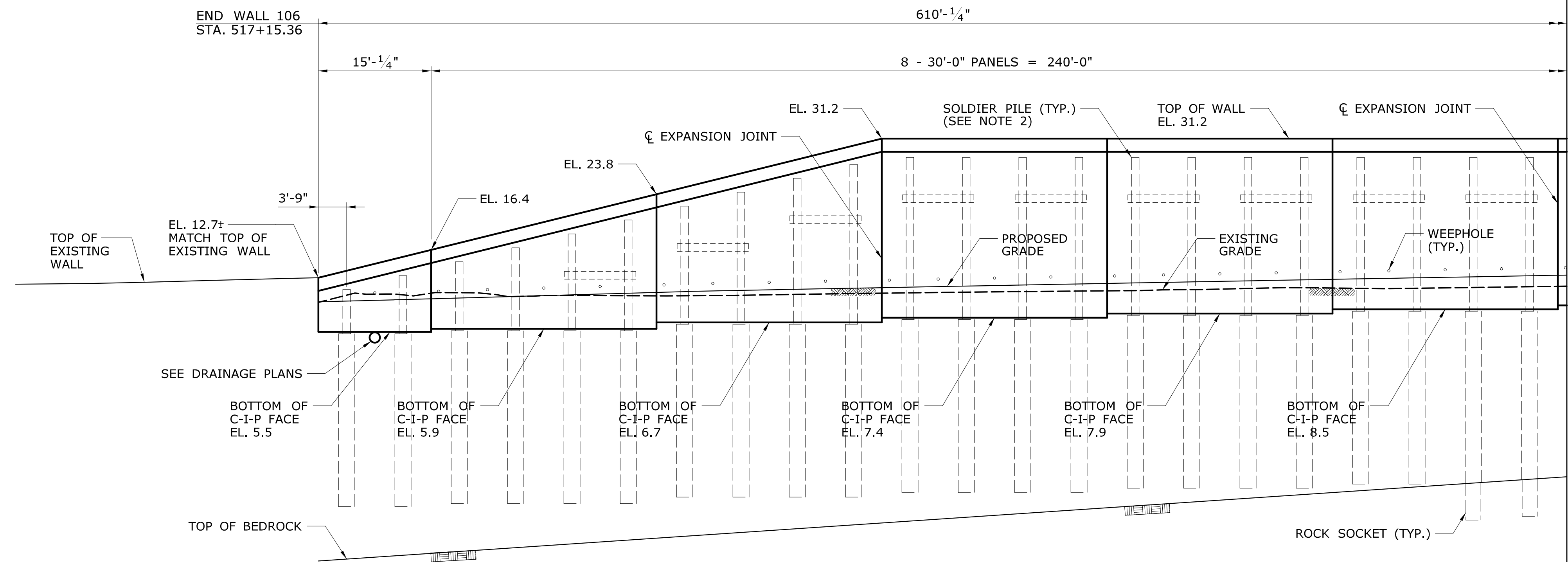
FINAL PLANS FOR REVIEW

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PLAN
SCALE: 1" = 10'-0"



DEVELOPED ELEVATION
SCALE: 1" = 10'-0"

GENERAL NOTES

SPECIFICATIONS: CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 816 (2004), SUPPLEMENTAL SPECIFICATIONS DATED JULY 2015 AND SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION (AREMA) MANUAL FOR RAILWAY ENGINEERING (2014), AS SUPPLEMENTED BY THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES (2002) AND BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL (2003).

ALLOWABLE DESIGN STRESSES: ALLOWABLE STRESSES SHALL CONFORM TO THE AREMA MANUAL FOR RAILWAY ENGINEERING AND SHALL BE BASED ON THE FOLLOWING MATERIAL PROPERTIES:

CONCRETE:	
CLASS "A" CONCRETE	BASED ON $f_c = 3000$ PSI
CLASS "F" CONCRETE	BASED ON $f_c = 4000$ PSI
PORTLAND CEMENT CONCRETE FOR DRILLED SHAFTS	BASED ON $f_c = 3000$ PSI
REINFORCEMENT:	
ASTM A615 GRADE 60	BASED ON $f_y = 60,000$ PSI
STRUCTURAL STEEL AND PILES:	
AASHTO M270, GRADE 50	BASED ON $F_y = 50,000$ PSI

THE SPECIFIED CONCRETE STRENGTH USED IN DESIGN, f_c , OF THE CONCRETE COMPONENTS IS NOTED ABOVE. THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE IN THE CONSTRUCTED COMPONENTS SHALL CONFORM TO THE REQUIREMENTS OF "SECTION 6.01 CONCRETE FOR STRUCTURES."

LIVE LOAD:	
RAILROAD:	COOPER E-80
PASSENGER PLATFORM:	150 PSF

BORING LOGS: FOR BORING LOGS, SEE SUBSET 9.

DIMENSIONS: WHEN DECIMAL DIMENSIONS ARE GIVEN TO LESS THAN THREE DECIMAL PLACES, THE OMITTED DIGITS SHALL BE ASSUMED TO BE ZEROS.

NOISE POLLUTION: THE CONTRACTOR SHALL EMPLOY ALL POSSIBLE METHODS TO MINIMIZE NOISE POLLUTION CAUSED BY CONSTRUCTION EQUIPMENT, INCLUDING BUT NOT LIMITED TO EQUIPMENT USED FOR DRILLING, EXCAVATING AND HAULING. ALL UNITS SHALL BE MUFFLED SO AS TO REDUCE NOISE TO AN ACCEPTABLE LEVEL AS DEFINED HEREIN. ALL METHODS AND DEVICES EMPLOYED TO MINIMIZE NOISE LEVELS SHALL BE SUBJECT TO THE CONTINUING APPROVAL OF THE ENGINEER. THE MAXIMUM ALLOWABLE LEVEL OF NOISE AT THE NEAREST RESIDENCE OR OCCUPIED BUILDING SHALL BE 90 DECIBELS ON THE "A" WEIGHTED SCALE.

CONCRETE NOTES

CLASS "A" CONCRETE: CLASS "A" CONCRETE SHALL BE USED THROUGHOUT WITH THE EXCEPTION OF THE CLASS "F" CONCRETE USED IN THE PRECAST LAGGING AND THE CONCRETE USED IN THE DRILLED SHAFTS.

PORTLAND CEMENT CONCRETE FOR DRILLED SHAFTS: THE COST OF PORTLAND CEMENT CONCRETE FOR DRILLED SHAFTS SHALL BE PAID FOR UNDER THE ITEM "DRILLED SHAFT (2.0' DIAMETER)."

JOINT SEAL: SEE SPECIAL PROVISIONS.

EXPOSED EDGES: EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1" X 1" UNLESS DIMENSIONED OTHERWISE.

CONCRETE COVER: ALL REINFORCEMENT SHALL HAVE TWO INCHES COVER UNLESS DIMENSIONED OTHERWISE.

REINFORCEMENT: ALL REINFORCEMENT SHALL BE ASTM A615 GRADE 60.



CONSTRUCTION JOINTS: CONSTRUCTION JOINTS, OTHER THAN THOSE SHOWN ON THE PLANS, WILL NOT BE PERMITTED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.

NOTES

- ALL DIMENSIONS ARE MEASURED ALONG THE FRONT FACE OF WALL. SEE WALL DETAILS FOR REFERENCE LINE.
- SOLDIER PILES SHALL BE SPACED AT 7'-6" UNLESS OTHERWISE NOTED.
- ALL JOINTS ARE CONTRACTION JOINTS UNLESS OTHERWISE NOTED.

LAYOUT REVISIONS ANTICIPATED
PENDING CTDOT REVIEW OF
EGRESS STUDY

FINAL PLANS FOR REVIEW

						DESIGNER/DRAFTER: K. BARKER		 <div>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</div> 		SIGNATURE/ BLOCK:		PROJECT TITLE: REPLACEMENT OF MNRR BRIDGE OVER ATLANTIC STREET PHASE 2		TOWN: STAMFORD		PROJECT NO. 135-301	
				CHECKED BY: J. IVES		DRAWING NO. RW-01											
				SCALE AS NOTED		SHEET NO.											
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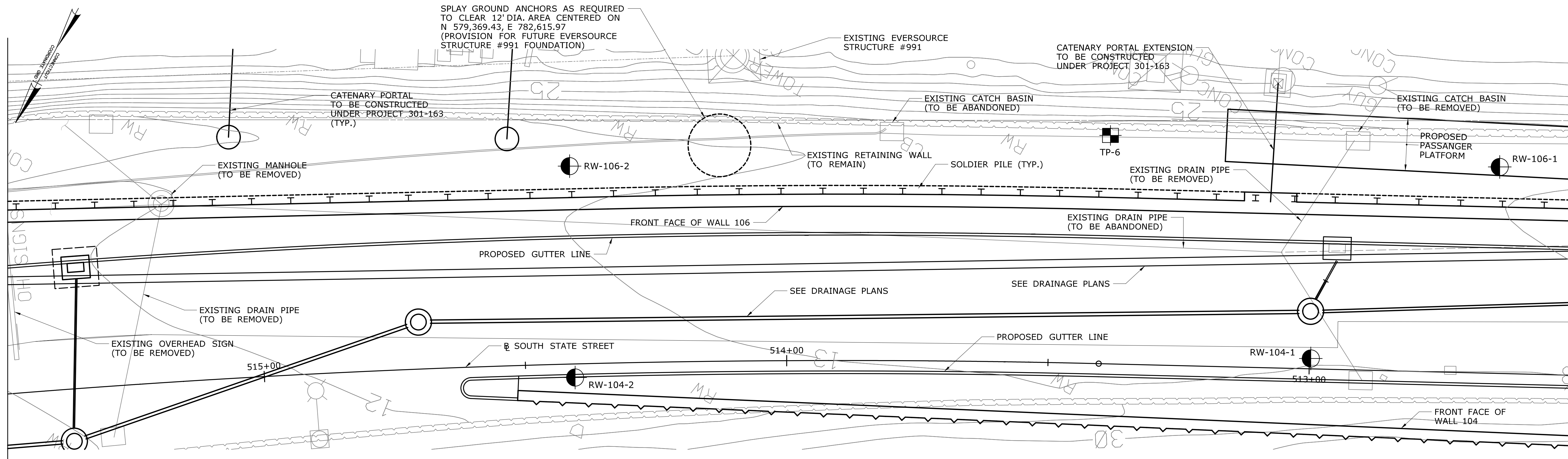
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MATCH LINE STA. 515+50

MATCH LINE STA. 515+50

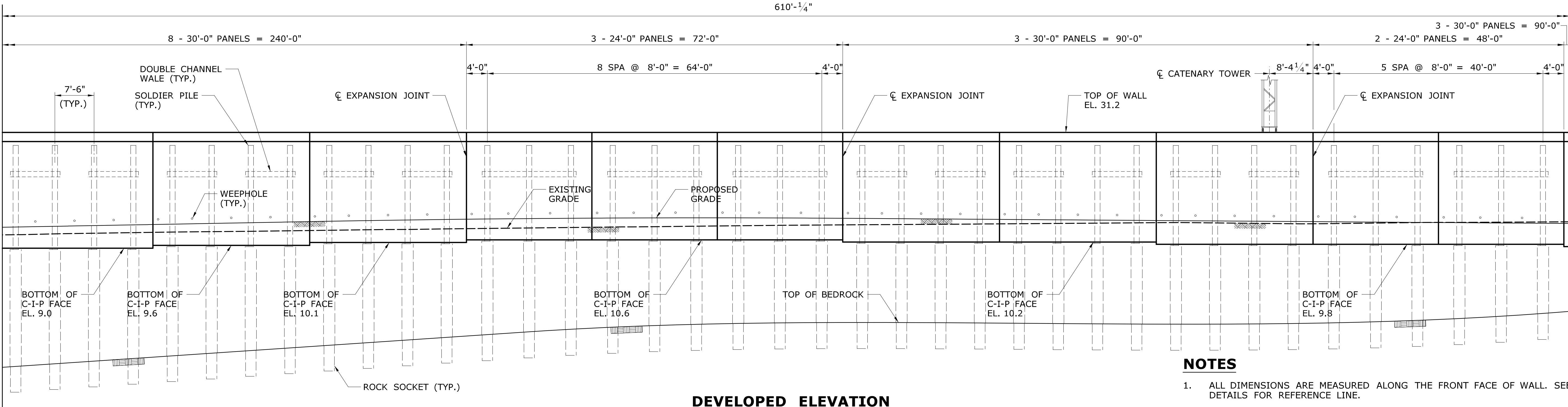
MATCH LINE STA. 512+50

MATCH LINE STA. 512+50



PLAN
SCALE: 1" = 10'-0"

LAYOUT REVISIONS ANTICIPATED
PENDING CTDOT REVIEW OF
EGRESS STUDY



DEVELOPED ELEVATION
SCALE: 1" = 10'-0"

NOTES

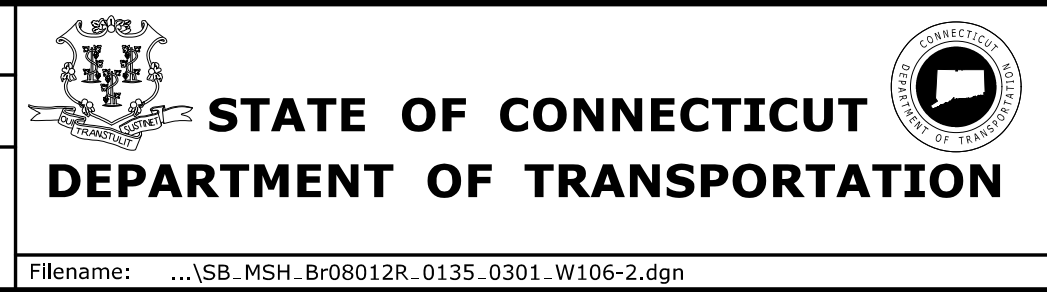
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FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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DESIGNER/DRAFTER:
K. BARKER
CHECKED BY:
J. IVES
SCALE AS NOTED



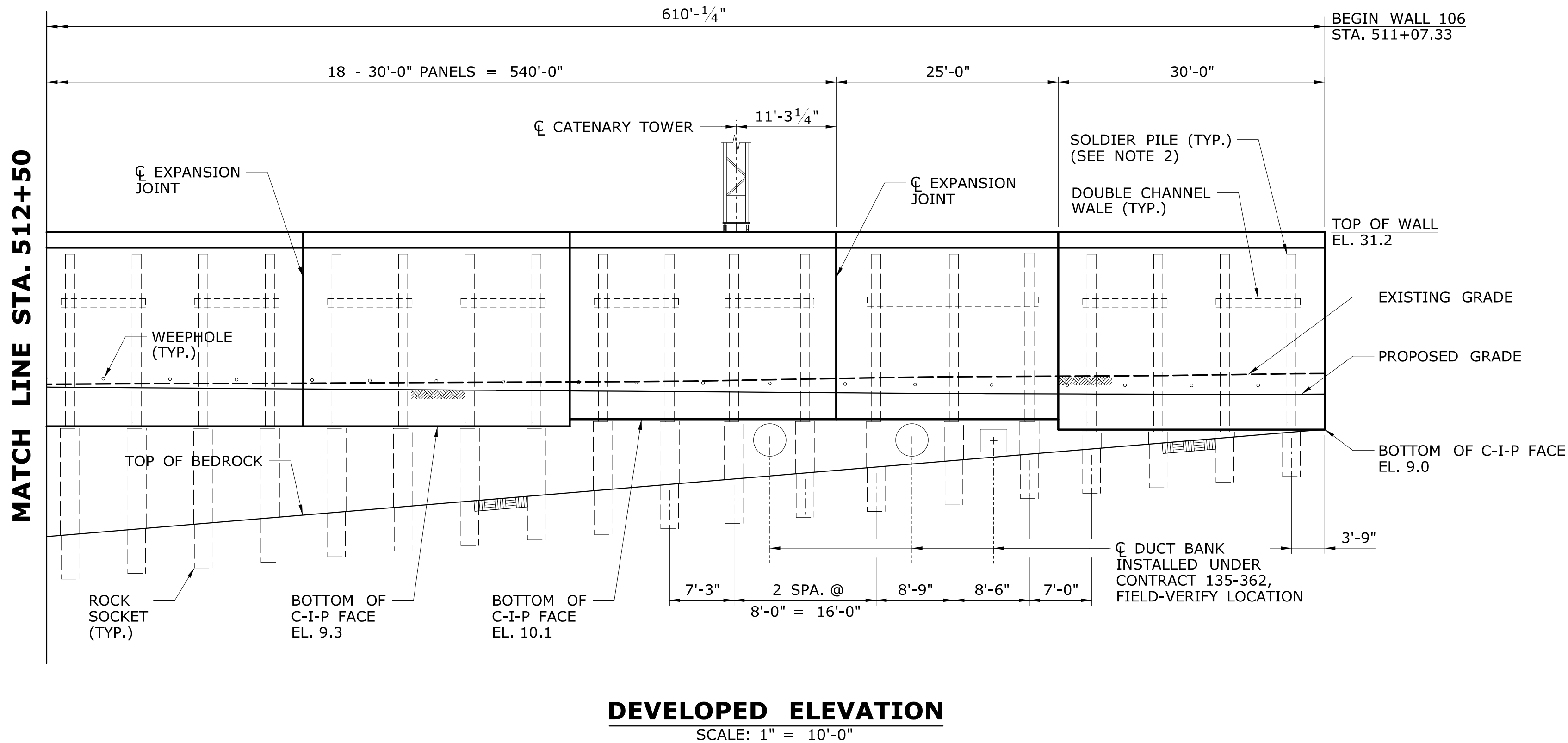
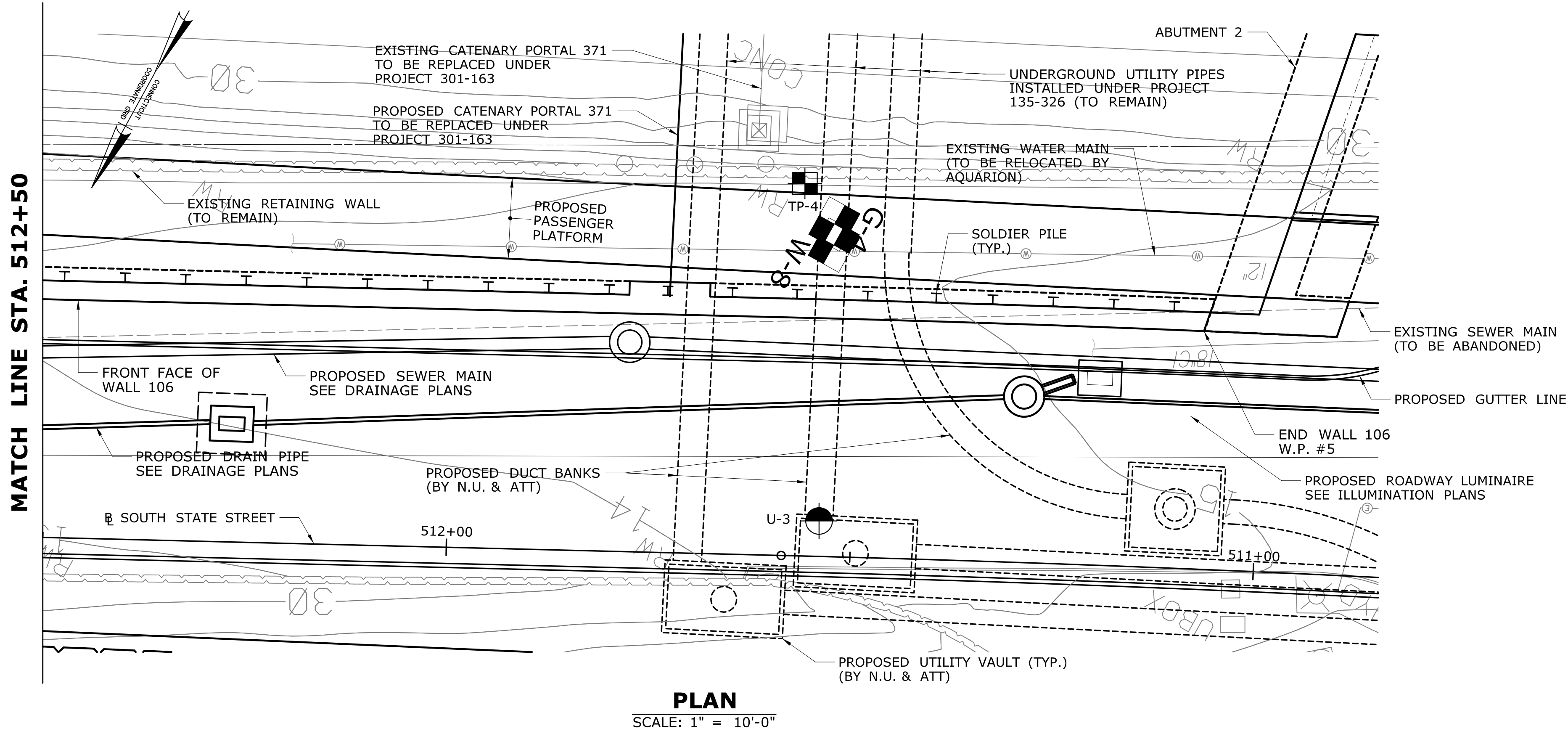
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PROJECT TITLE:
**REPLACEMENT OF MNRR BRIDGE
OVER ATLANTIC STREET
PHASE 2**

TOWN:
STAMFORD
DRAWING TITLE:
**RETAINING WALL 106
PLAN AND ELEVATION - 2**

PROJECT NO.
135-301
DRAWING NO.
RW-02
SHEET NO.
01.07.002

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LAYOUT REVISIONS ANTICIPATED
PENDING CTDOT REVIEW OF
EGRESS STUDY

NOTES

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- ALL JOINTS ARE CONTRACTION JOINTS UNLESS OTHERWISE NOTED.

FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 3/28/2016

DESIGNER/DRAFTER:
K. BARKER
CHECKED BY:
J. IVES
SCALE AS NOTED



STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\\SB_MSH_Br08012R_0135_0301_W106-3.dgn



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BLOCK:

PROJECT TITLE:

**REPLACEMENT OF MNRR BRIDGE
OVER ATLANTIC STREET
PHASE 2**

TOWN:

STAMFORD

DRAWING TITLE:

**RETAINING WALL 106
PLAN AND ELEVATION - 3**

PROJECT NO.

135-301

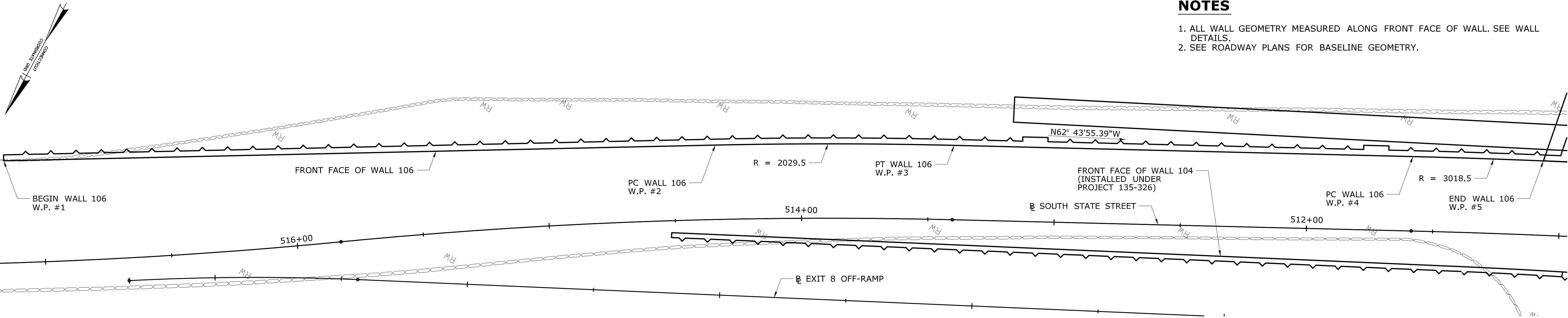
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RW-03

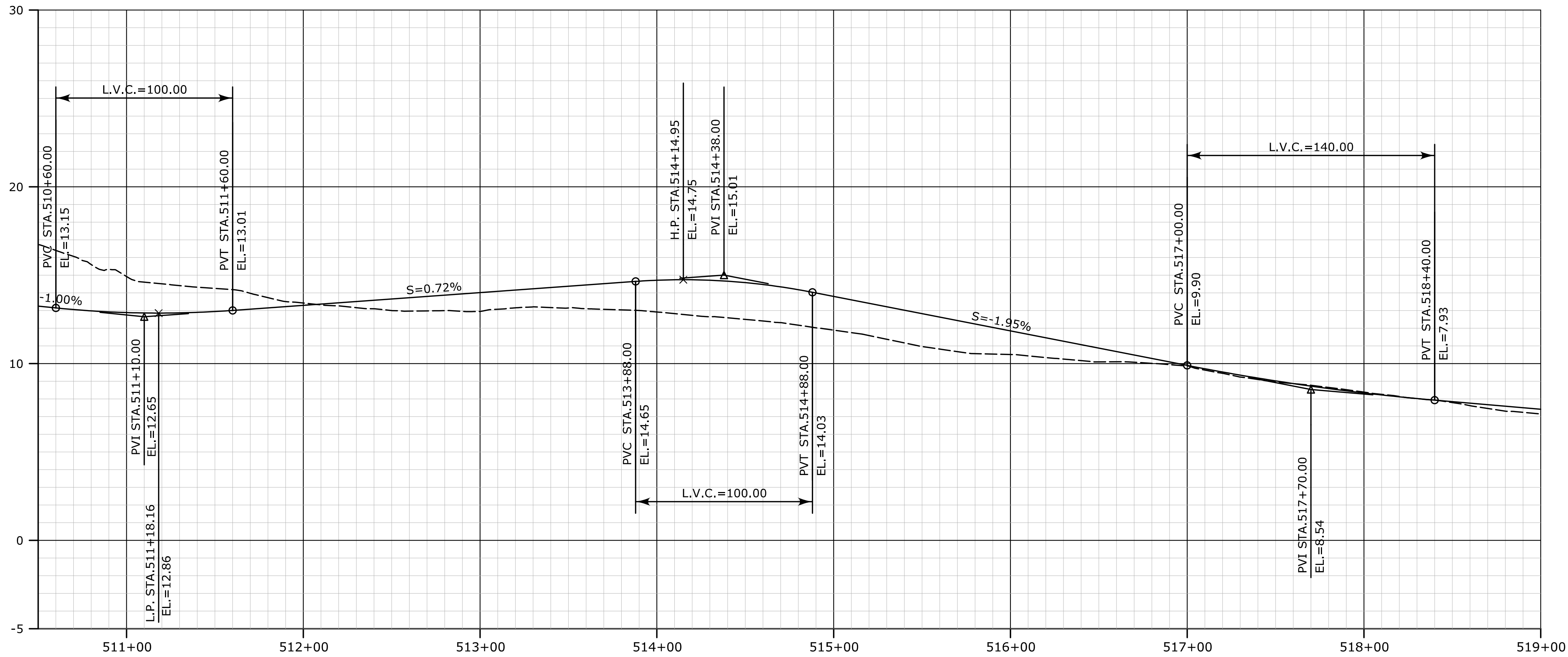
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LAYOUT PLAN
SCALE: 1" = 20'-0"



SOUTH STATE STREET PROFILE
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

NOTES

1. ALL WALL GEOMETRY MEASURED ALONG FRONT FACE OF WALL. SEE WALL DETAILS.
2. SEE ROADWAY PLANS FOR BASELINE GEOMETRY.

WORKING POINT COORDINATES

WP #	NORTHING	EASTING
1	579558.02	782900.40
2	579415.92	782656.97
3	579370.13	782574.15
4	579285.91	782413.06
5	579262.36	782367.05

RETAINING WALL NO. 106 QUANTITIES

DESCRIPTION	UNIT	QTY
STRUCTURE EXCAVATION-EARTH (COMPLETE)	CY	770
PERVIOUS STRUCTURE BACKFILL	CY	4,840
GROUND ANCHOR	EA	76
PERFORMANCE TEST FOR GROUND ANCHOR	EA	11
PROOF TEST FOR GROUND ANCHOR	EA	65
WELDED STUDS	EA	3,150
CLASS "A" CONCRETE	CY	1,130
SIMULATED STONE MASONRY	SY	1,365
CLASS "F" CONCRETE	CY	280
1/2" PREFORMED EXPANSION JOINT FILLER FOR BRIDGES	SF	1,545
DEFORMED STEEL BARS	LB	200,600
STRUCTURAL STEEL (LOW ALLOY)	CWT	495
FURNISHING DRILLED SHAFT DRILLING EQUIPMENT	LS	*
DRILLED SHAFT (2.0' DIAMETER)	LF	1,600
DRILLED SHAFT EARTH EXCAVATION (2.0' DIAMETER)	LF	1,200
DRILLED SHAFT ROCK EXCAVATION (2.0' DIAMETER)	LF	400
PERMANENT CASING (2.0' DIAMETER)	LF	1,200
FURNISHING STEEL PILES	LB	287,450
TEMPORARY EARTH RETAINING SYSTEM	SF	TBD
EARTH RETAINING SYSTEM LEFT IN PLACE	SF	TBD
GEOCOMPOSITE SHEET DRAIN	SF	5,335
REMOVAL OF EXISTING MASONRY	CY	TBD

*THE LUMP SUM ITEM "FURNISHING DRILLED SHAFT DRILLING EQUIPMENT" INCLUDES WORK AT BRIDGE 08012R AND WALLS 105, 106 AND 107.

FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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K. BARKER
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SCALE AS NOTED



STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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PROJECT TITLE:

REPLACEMENT OF MNRR BRIDGE
OVER ATLANTIC STREET
PHASE 2

TOWN:

STAMFORD
RETAINING WALL 106
LAYOUT PLAN

PROJECT NO.

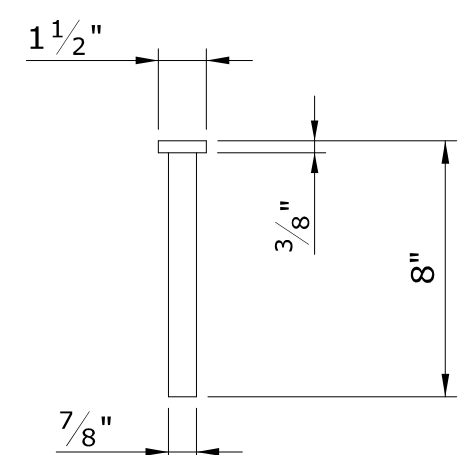
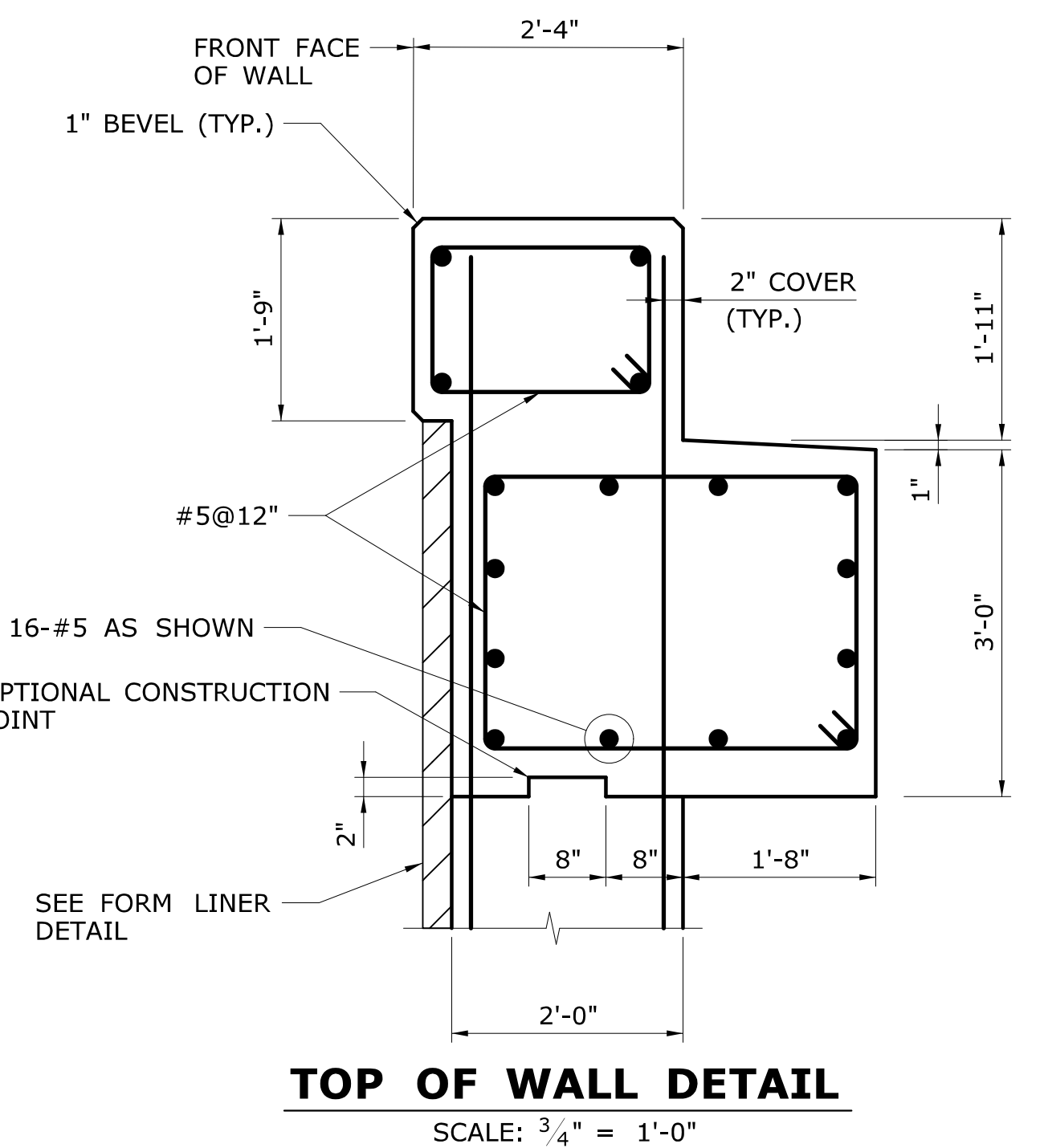
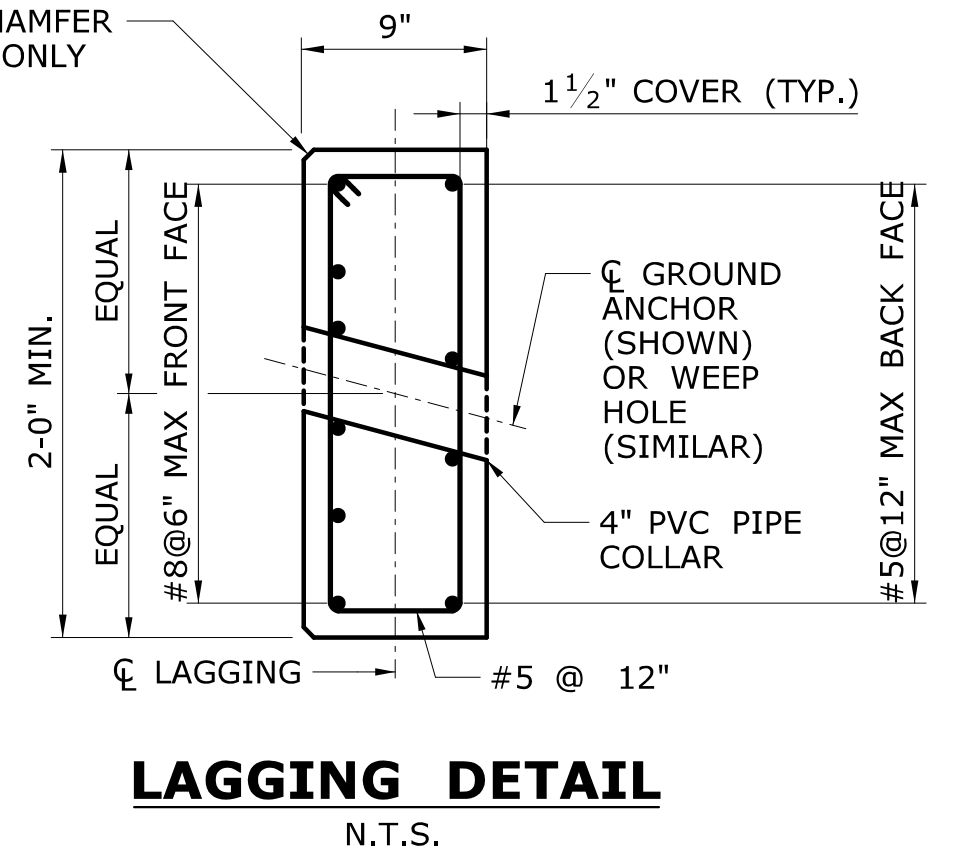
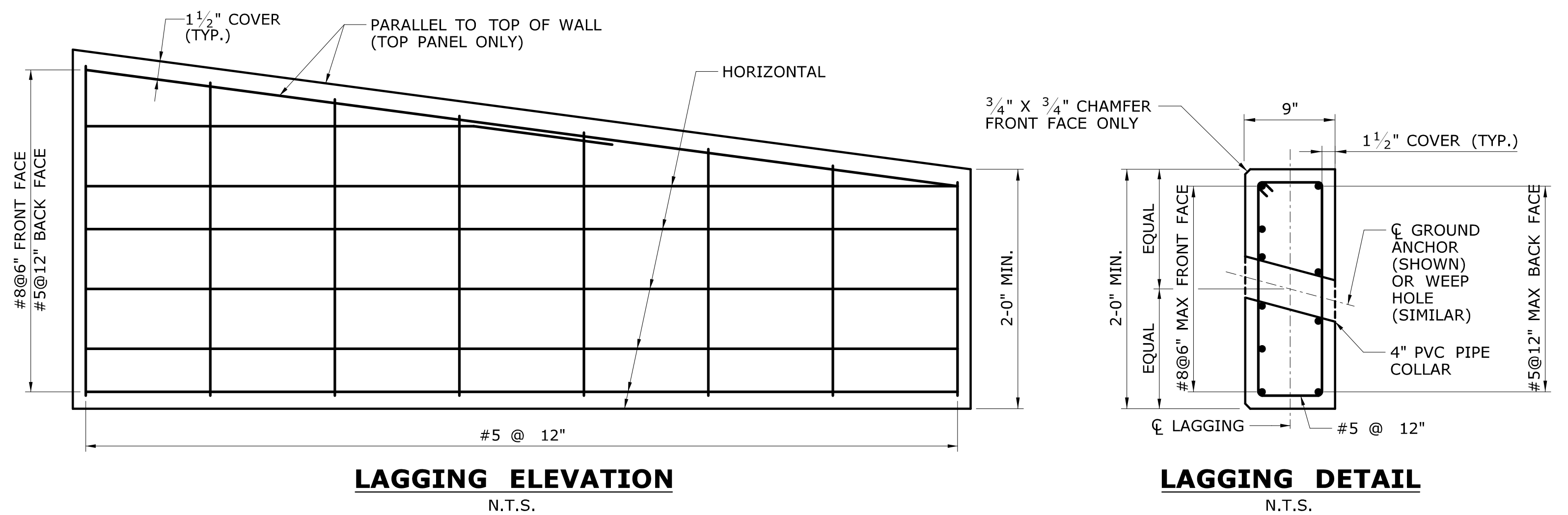
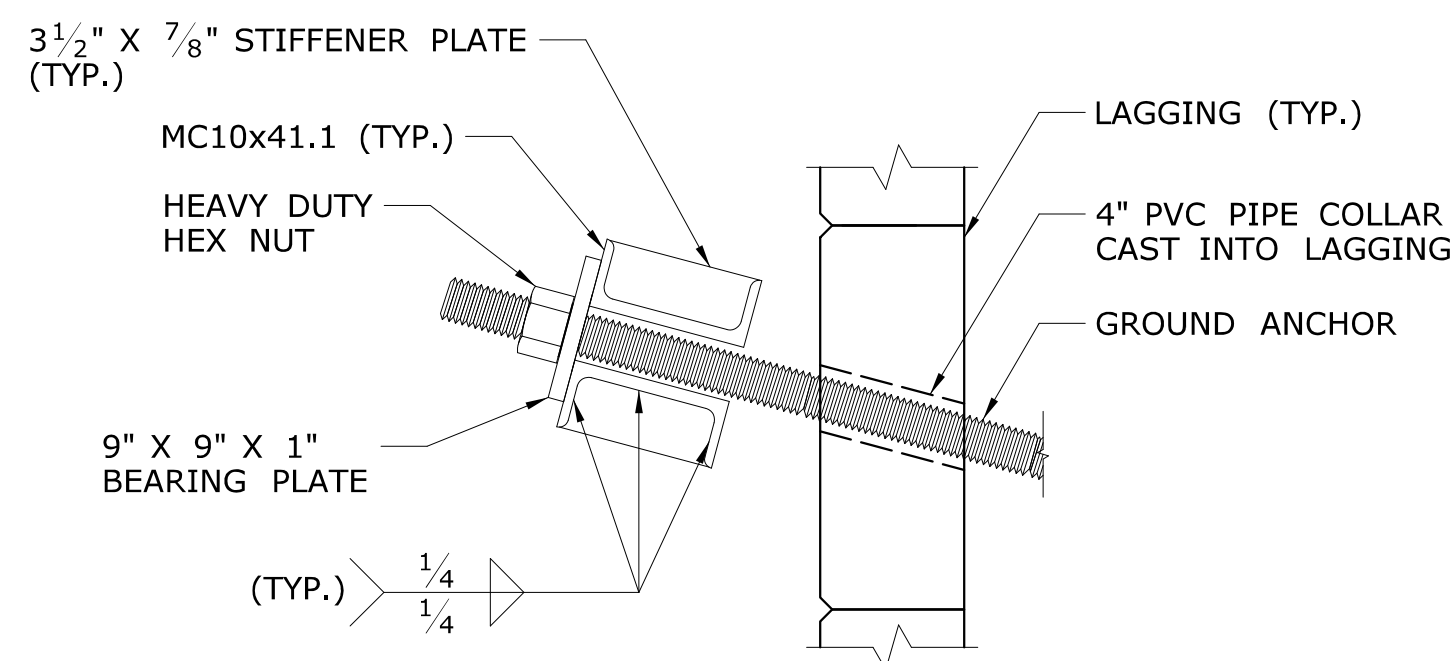
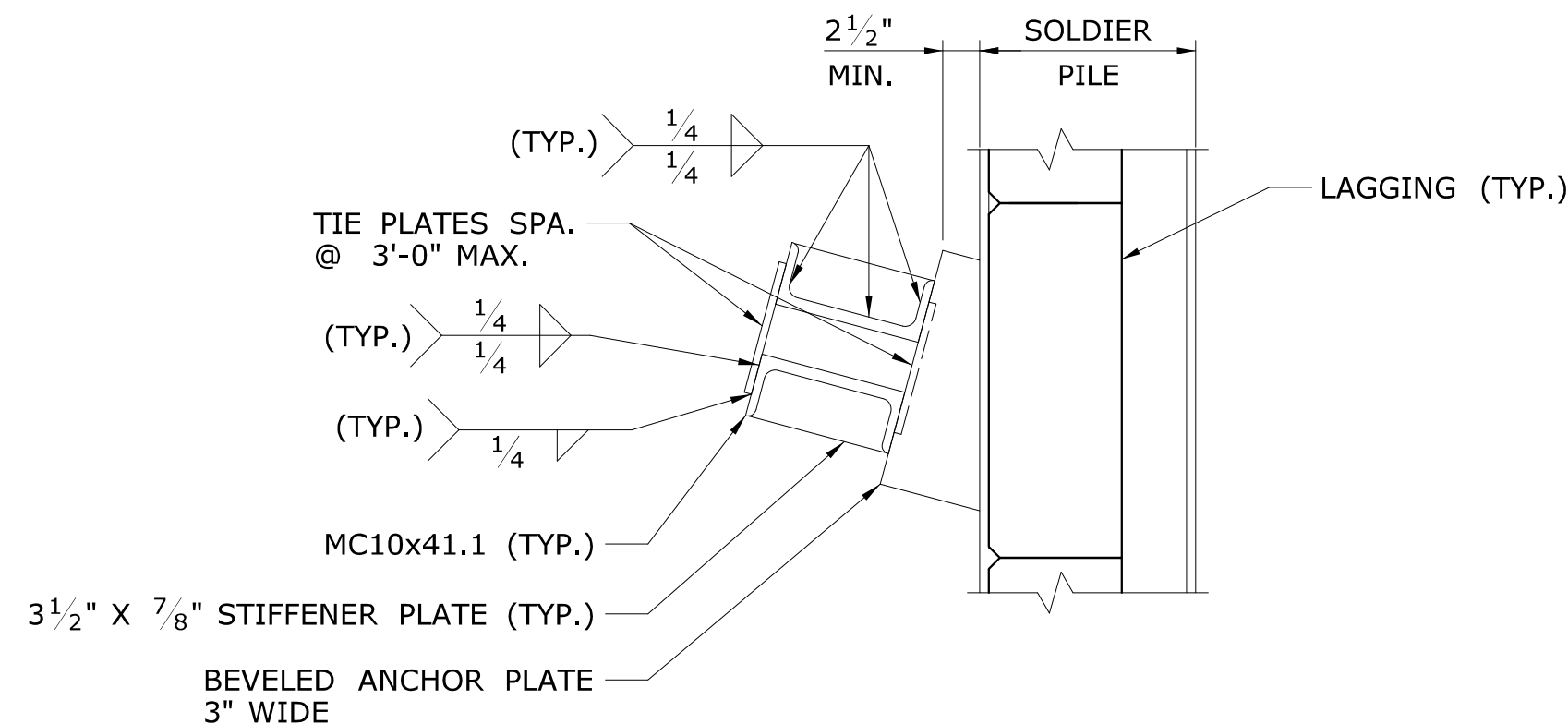
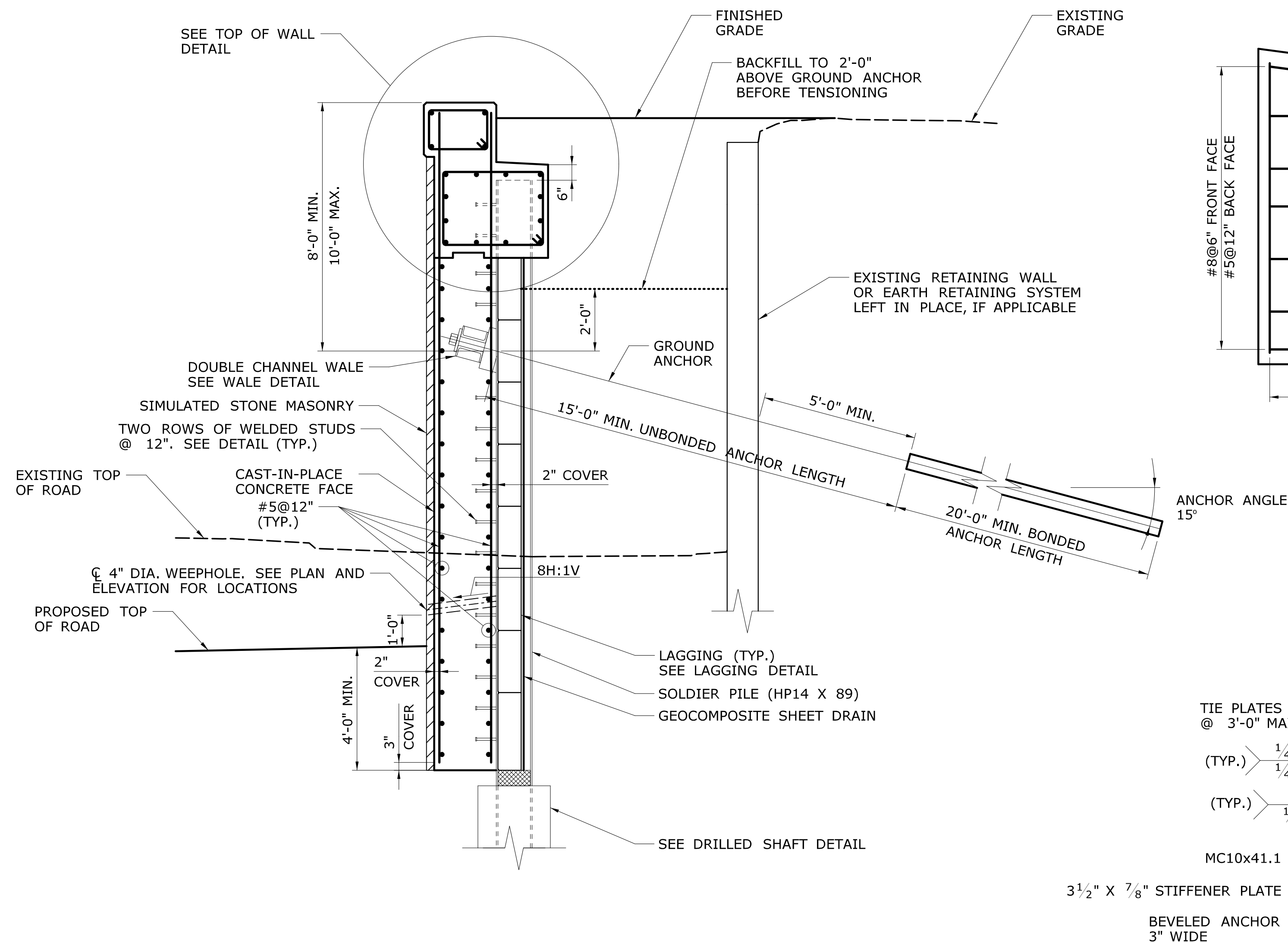
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DRAWING NO.

RW-04

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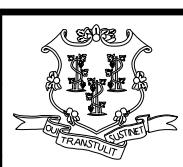
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CHECKED BY:	J. IVES
SCALE AS NOTED	




STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\\SB_MSH-Br08012B-0135-0301-W106-5.dgn

SIGNATURE/
BLOCK:

PROJECT TITLE:

REPLACEMENT OF MNRR BRIDGE OVER ATLANTIC STREET PHASE 2

TOWN:

STAMFORD

DRAWING TITLE:

RETAINING WALL 106

WALL DETAILS - 1

PROJECT NO.

135-301

DRAWING NO.

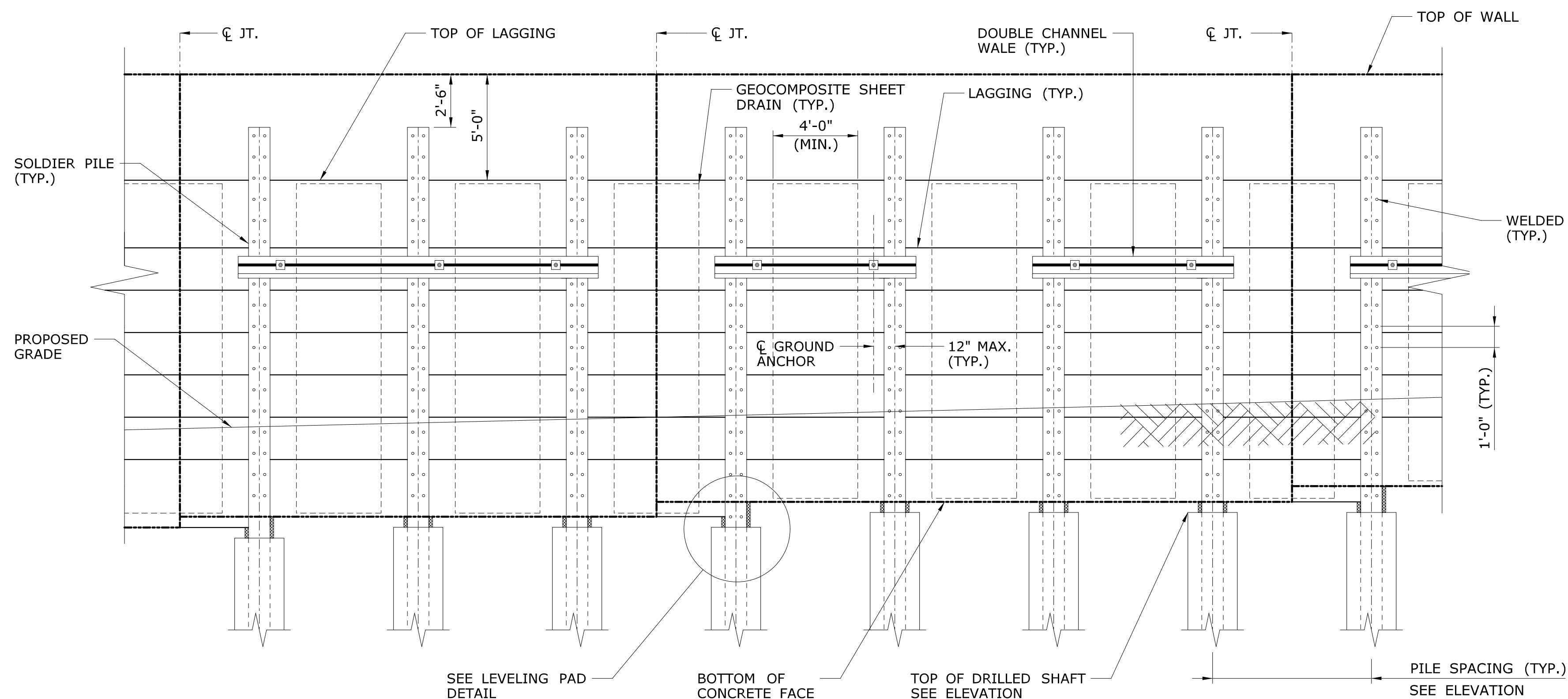
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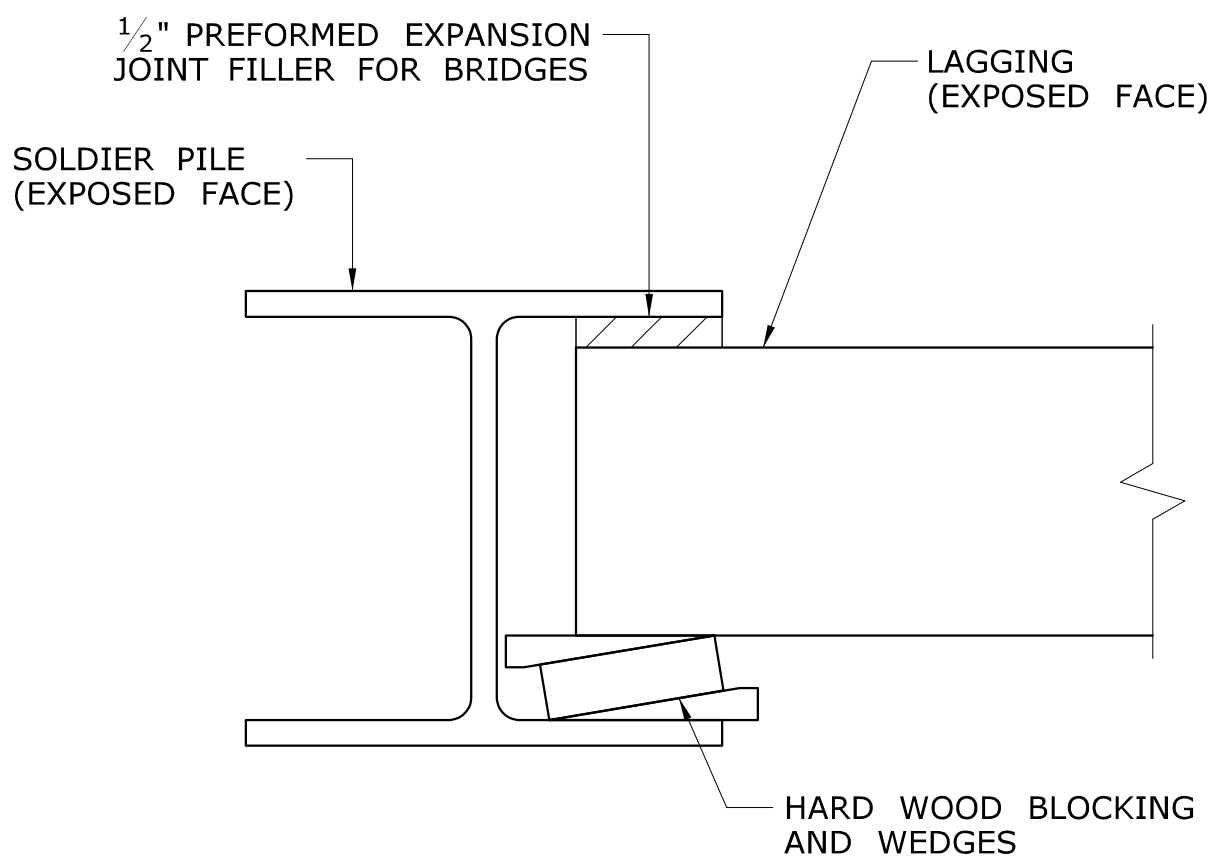
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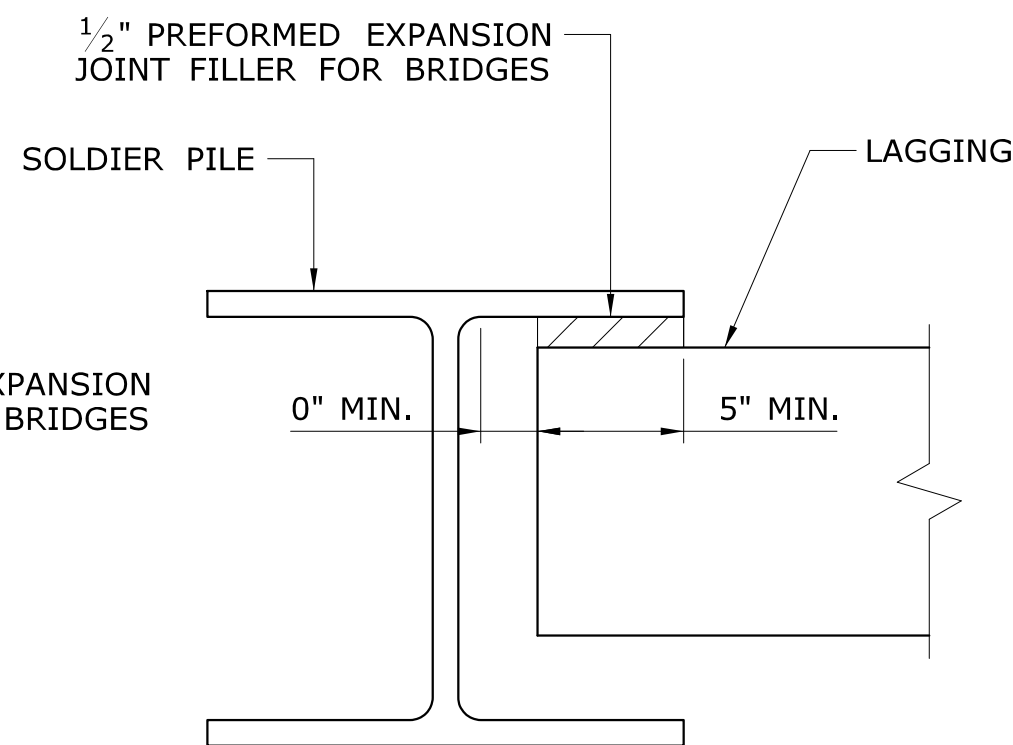
ELEVATION
SCALE: 1/4" = 1'-0"



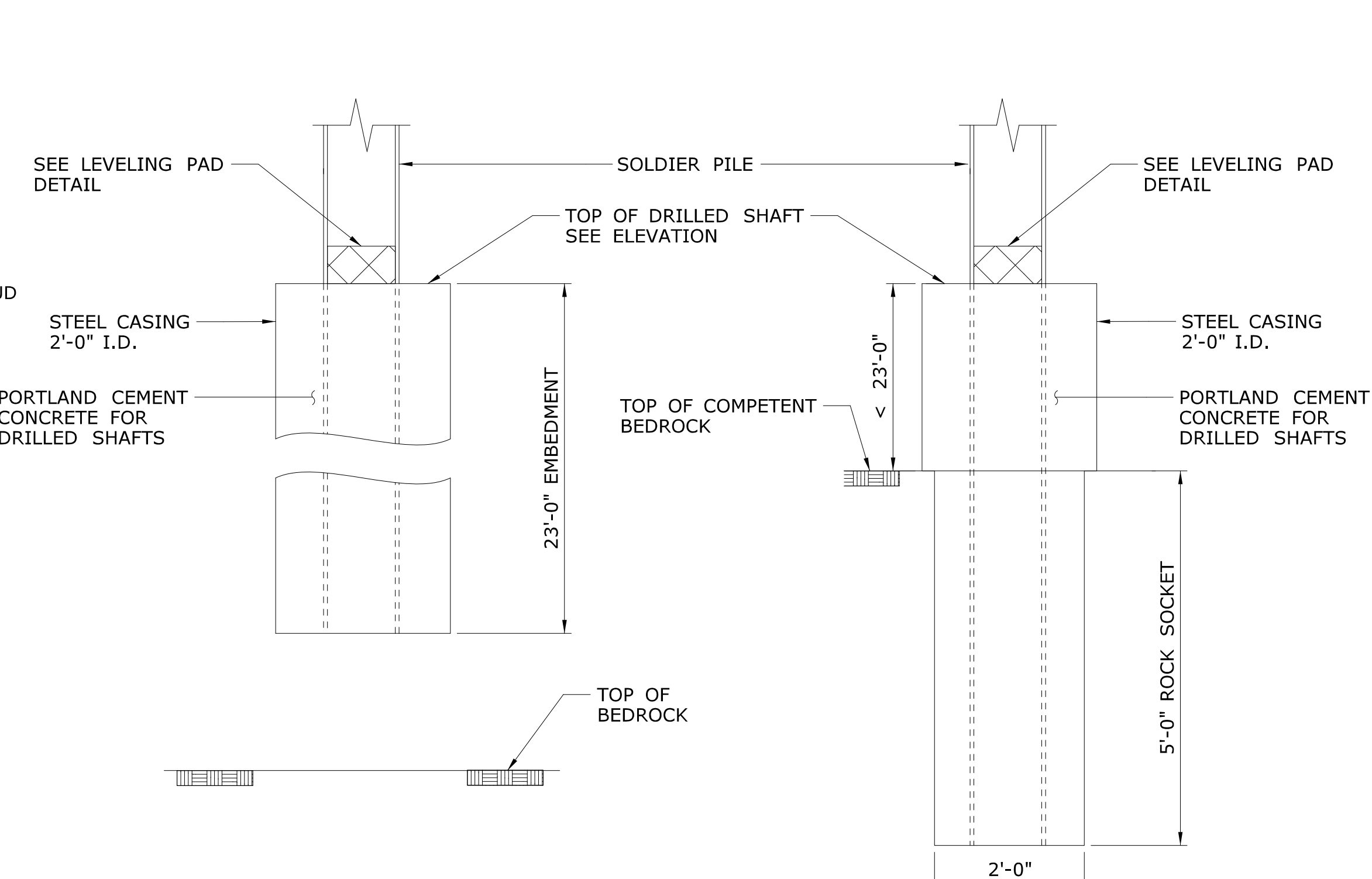
TOP VIEW



SIDE VIEW



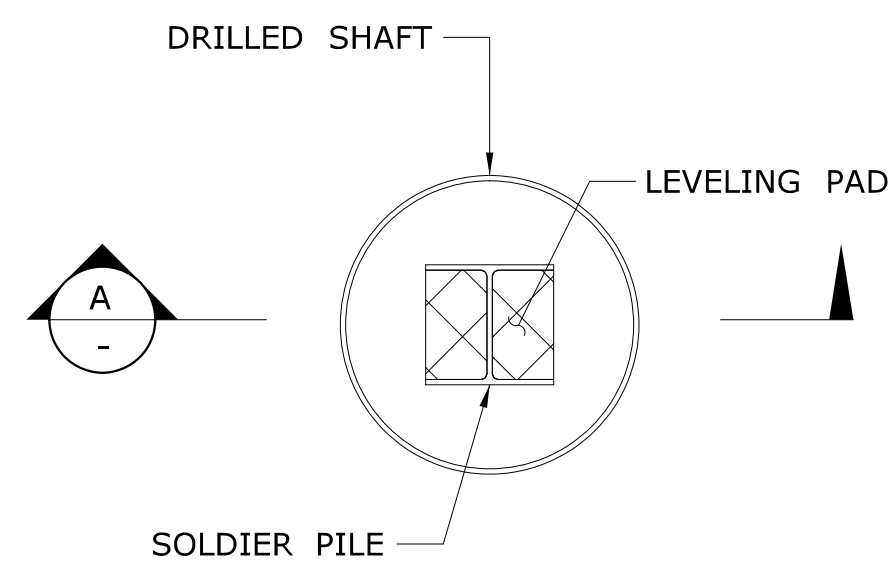
BEARING SURFACE DETAIL
N.T.S.



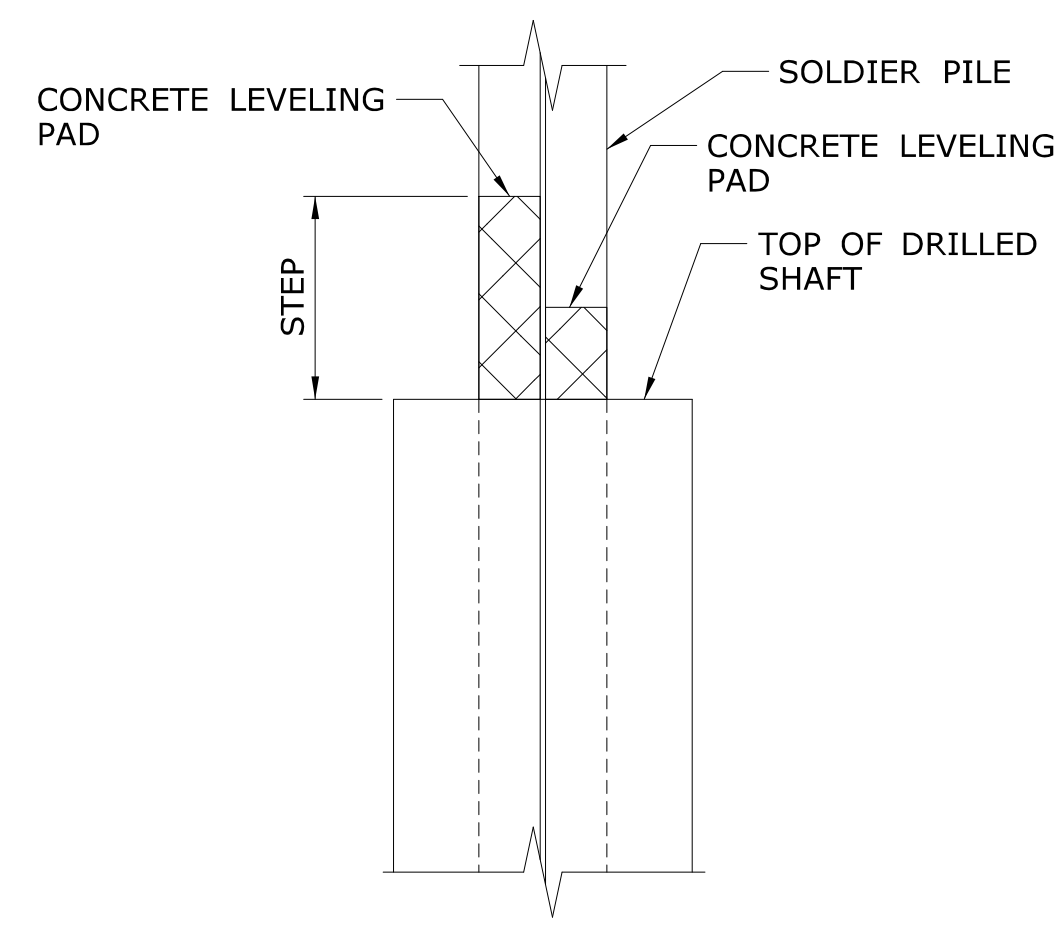
DRILLED SHAFT

DRILLED SHAFT WITH ROCK SOCKET

DRILLED SHAFT DETAIL
N.T.S.



TOP VIEW



A SECTION
N.T.S.

LEVELING PAD DETAIL
N.T.S.

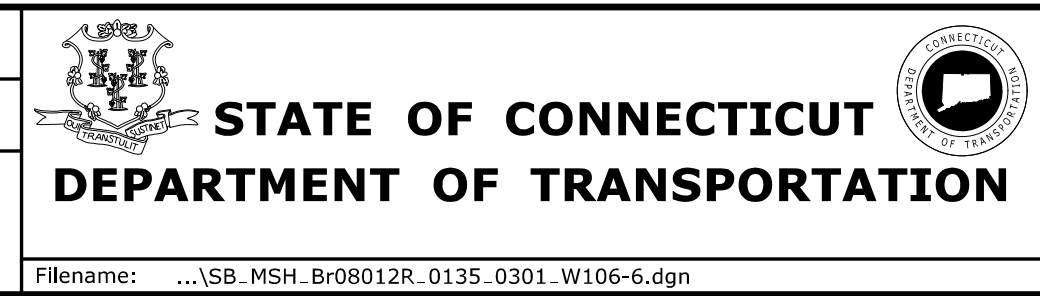
FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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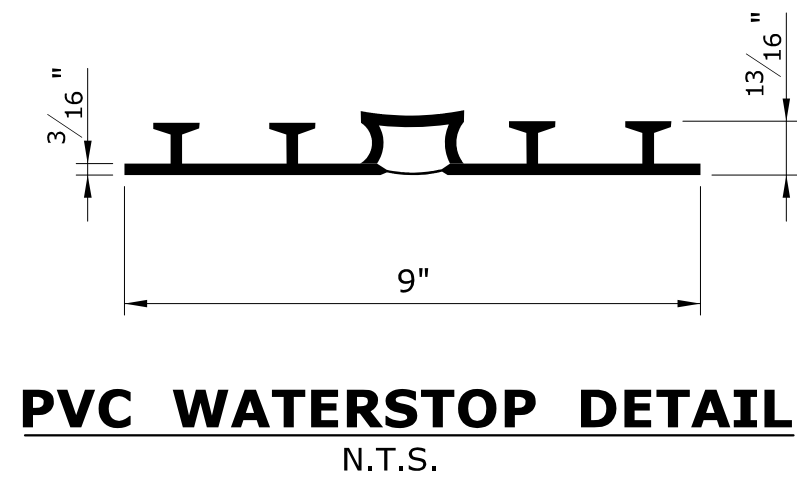
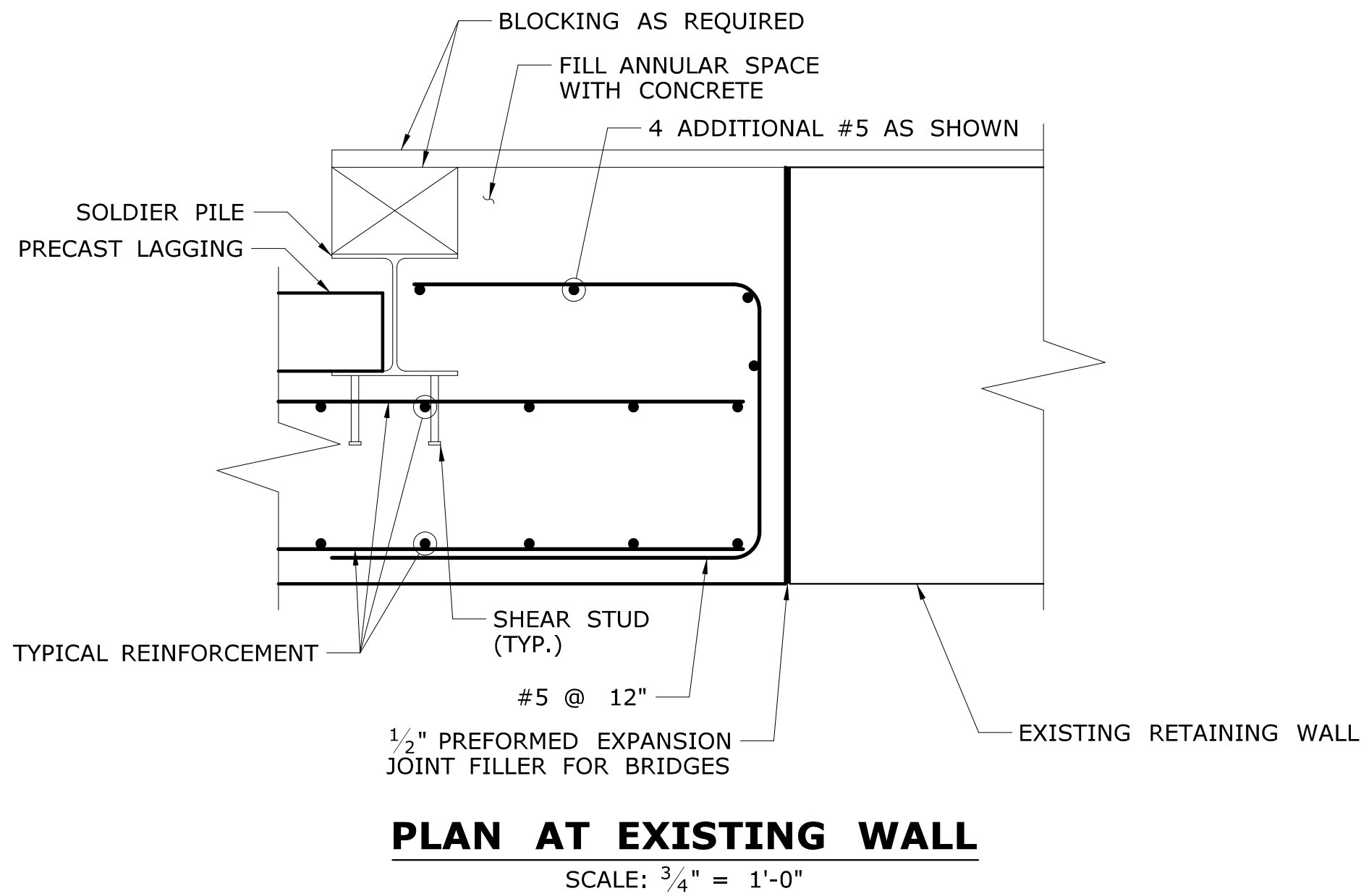
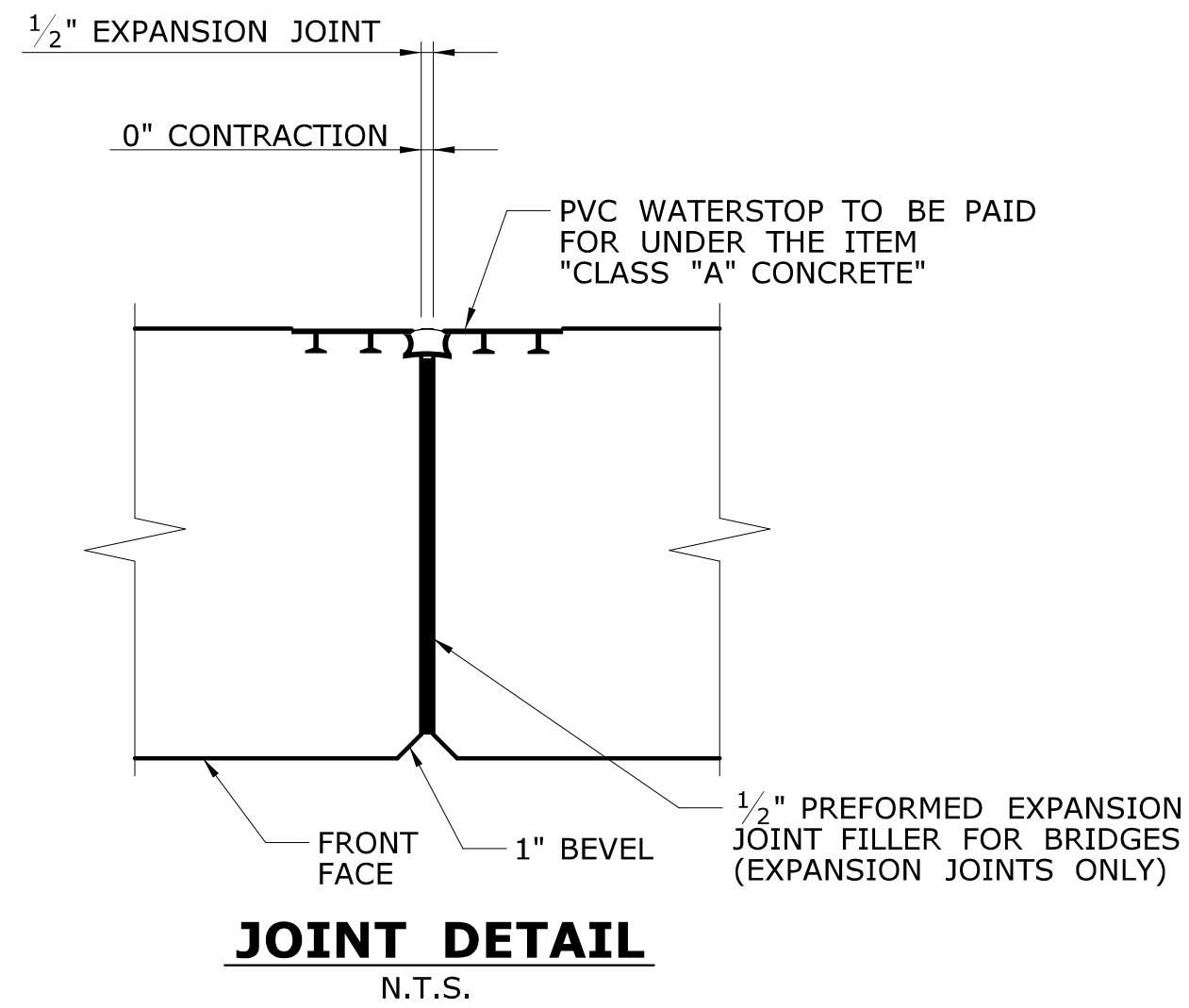


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PROJECT TITLE:
**REPLACEMENT OF MNRR BRIDGE
OVER ATLANTIC STREET
PHASE 2**

TOWN:
STAMFORD
DRAWING TITLE:
**RETAINING WALL 106
WALL DETAILS - 2**

PROJECT NO.
135-301
DRAWING NO.
RW-06
SHEET NO.
01.07.006





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SCALE AS NOTED

**STATE OF CONNECTICUT**
DEPARTMENT OF TRANSPORTATION
Filename: ...\\SB_MSH_Br08012R_0135_0301_W106-7.dgn



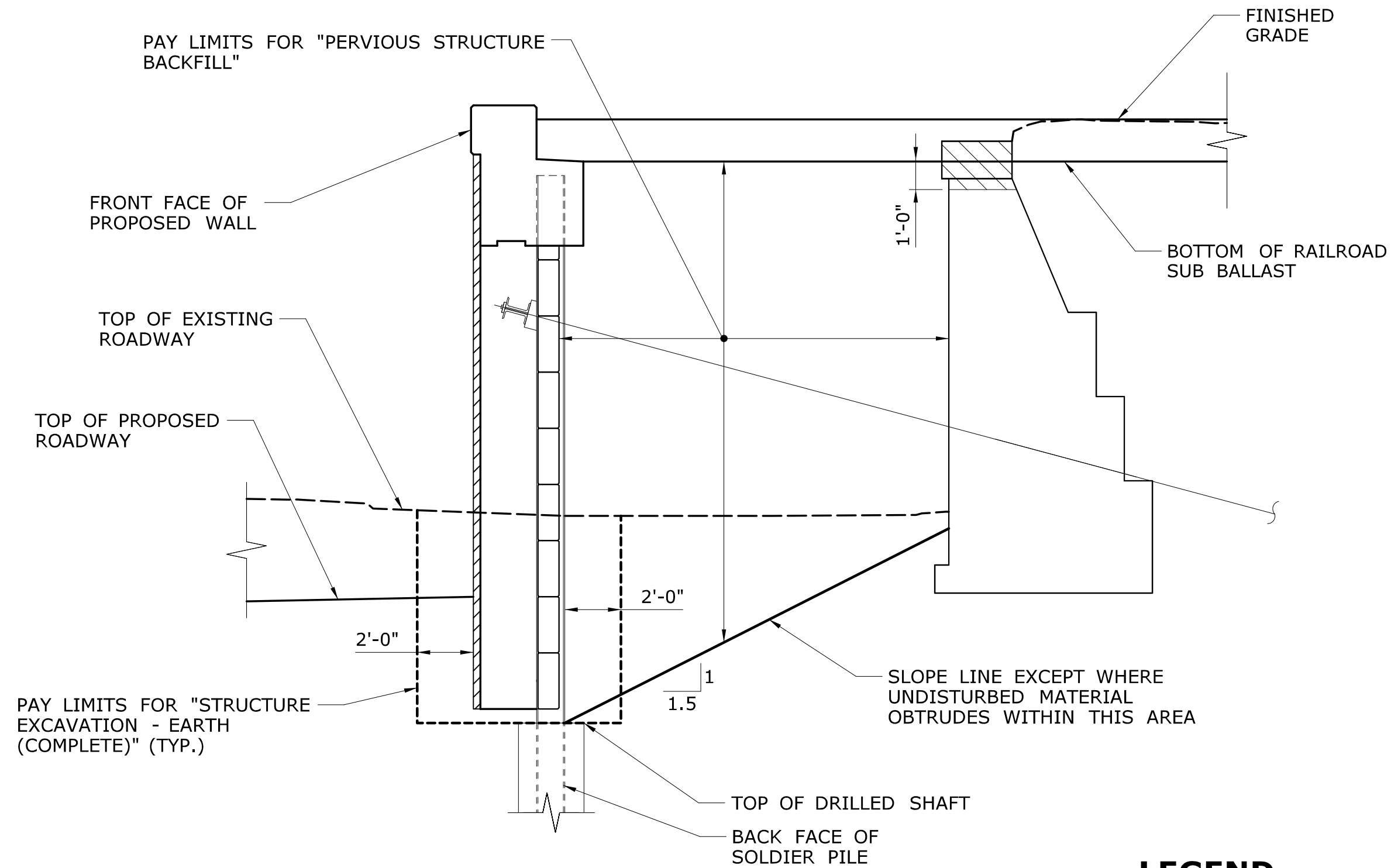
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**REPLACEMENT OF MNRR BRIDGE
OVER ATLANTIC STREET
PHASE 2**

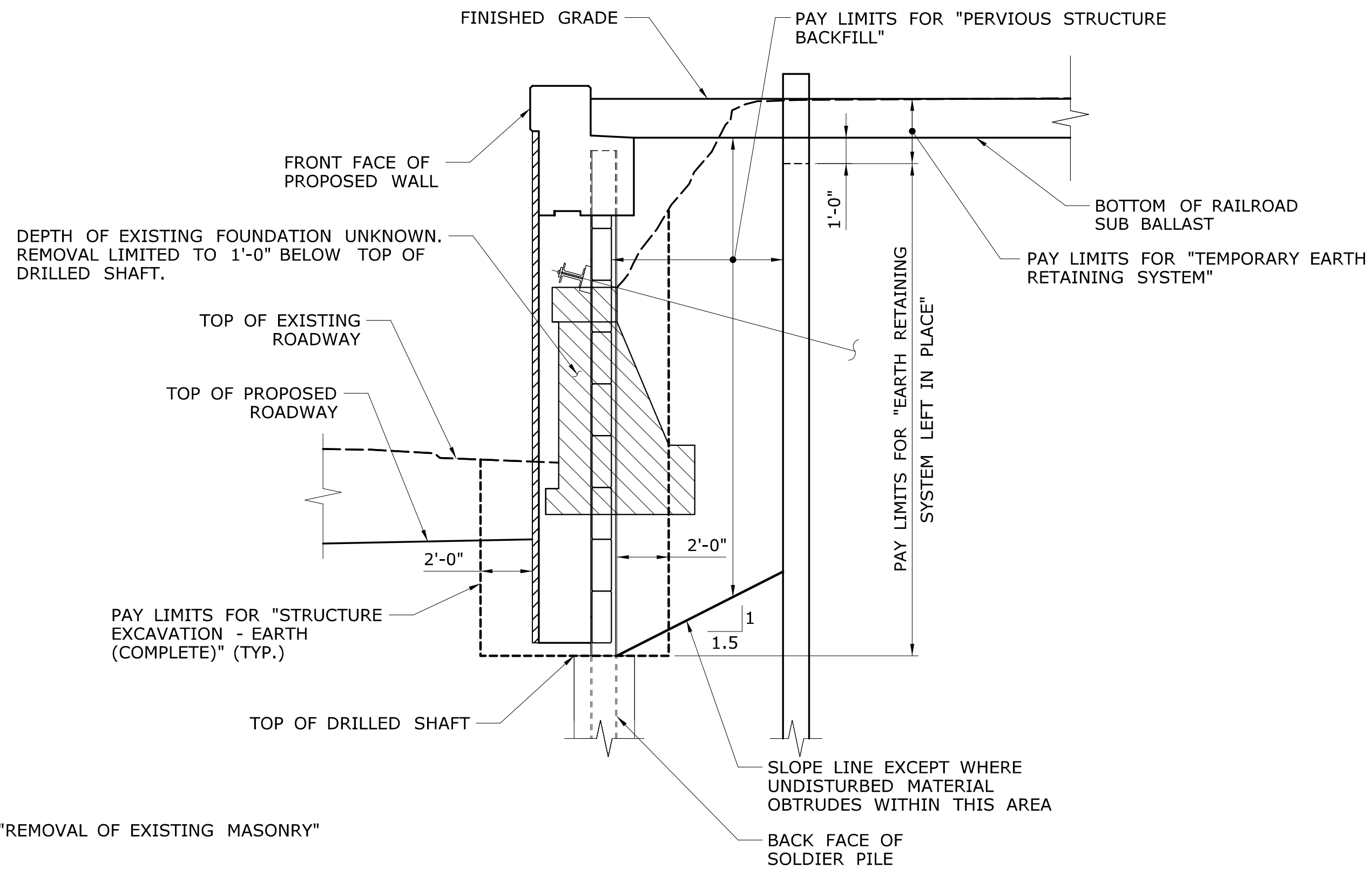
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STAMFORD
DRAWING TITLE:
**RETAINING WALL 106
WALL DETAILS - 3**

PROJECT NO.
135-301
DRAWING NO.
RW-07
SHEET NO.
01.07.007

FINAL PLANS FOR REVIEW



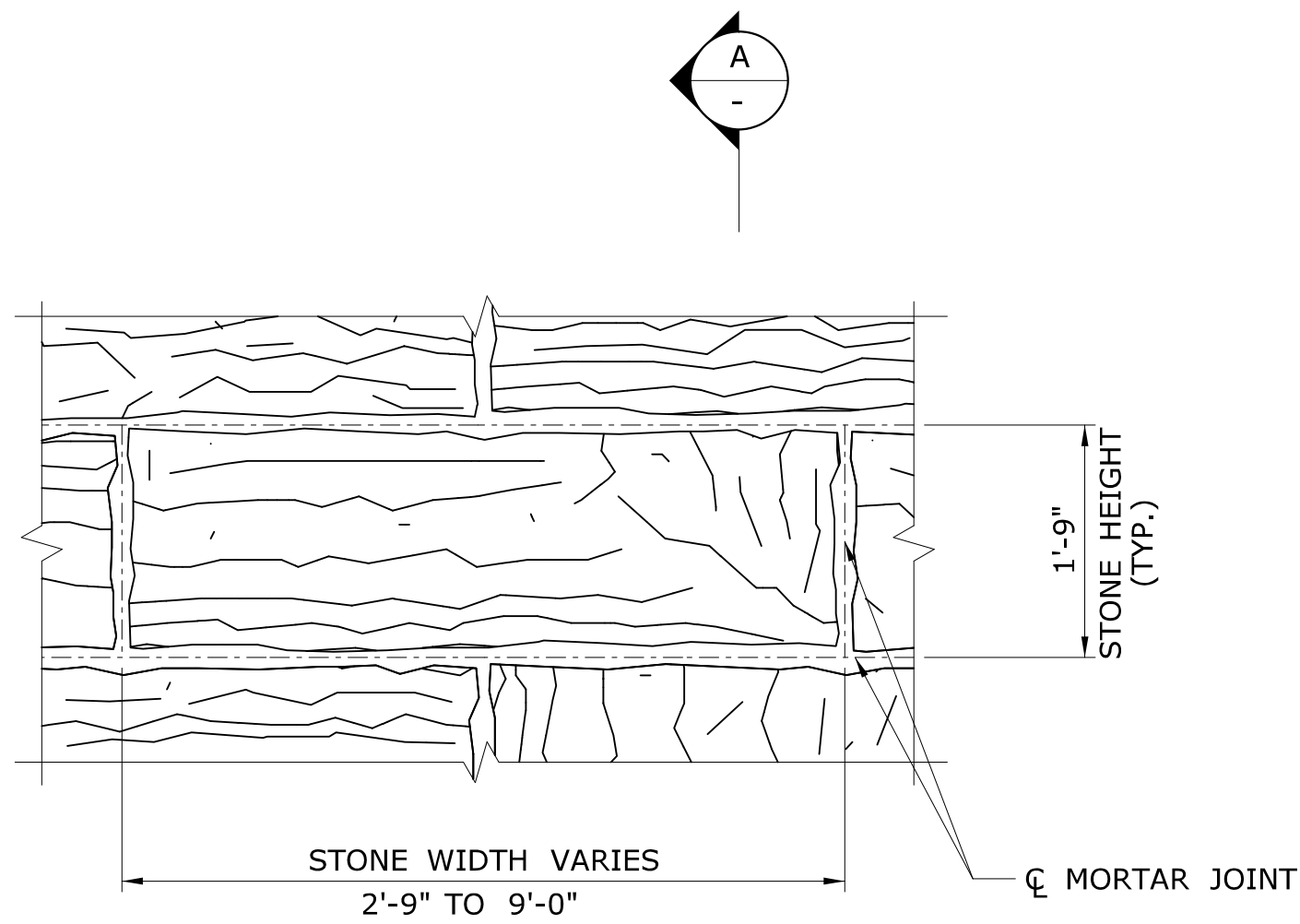
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EXISTING WALL LEFT IN PLACE
N.T.S.



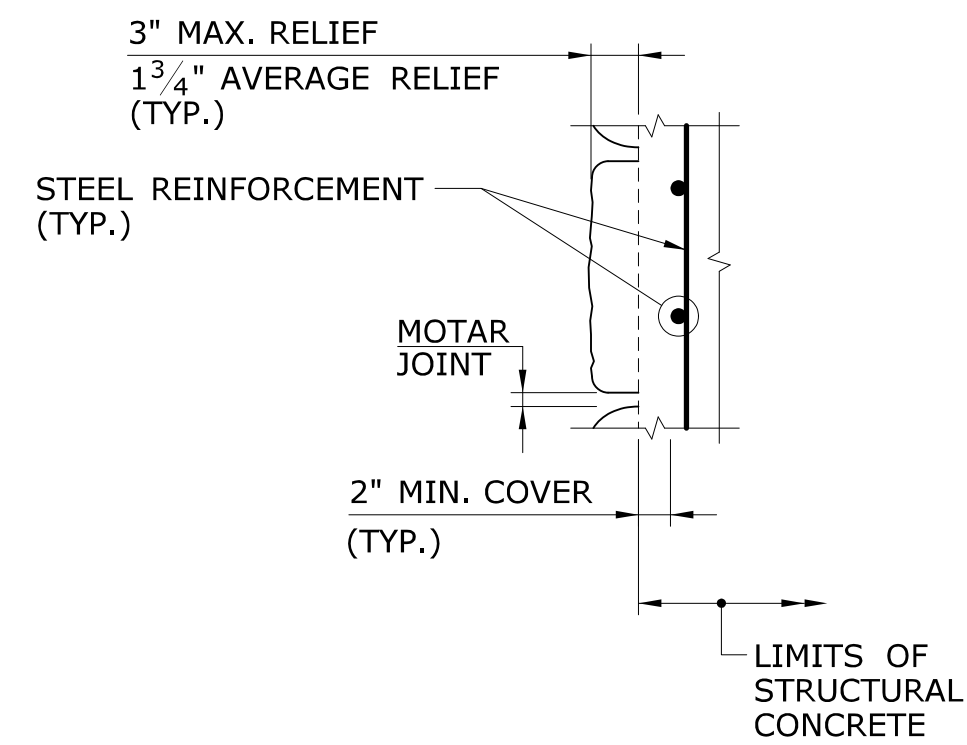
PAY LIMIT DETAIL
EXISTING WALL REMOVED
N.T.S.

ARCHITECTURAL NOTES

1. REFER TO OTHER STRUCTURE DETAILS FOR REINFORCING, DIMENSIONS, ETC.
2. WHERE SHOWN ON THE PLANS, THE CONTRACTOR SHALL UTILIZE CONCRETE FORM LINERS TO SIMULATE STONE MASONRY CONSTRUCTION. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE FOR "SIMULATED STONE MASONRY".
3. CONCRETE FORM LINERS SHALL CONFORM TO THE REQUIREMENTS OF "SIMULATED STONE MASONRY".
4. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL LAYOUT DRAWINGS OF ALL FORM LINERS SHOWING STONE SIZES, STONE CONFIGURATIONS, JOINT SPACING, AND ALL DIMENSIONS REQUIRED.
5. IN ADDITION TO THE DETAILS SHOWN ON THESE SHEETS, ALL EXPOSED EDGES SHALL RECEIVE A 1" x 1" BEVEL UNLESS DIMENSIONED OTHERWISE.
6. THE ARCHITECTURAL LINERS SHOWN ARE BASED ON FORM LINERS MANUFACTURED BY CUSTOM ROCK FORMLINER. THE STONE PATTERN IS BASED ON CUSTOM ROCK FORMLINER PATTERN NO. 1502, "ARCH STREET BRIDGE LIMESTONE."




ELEVATION

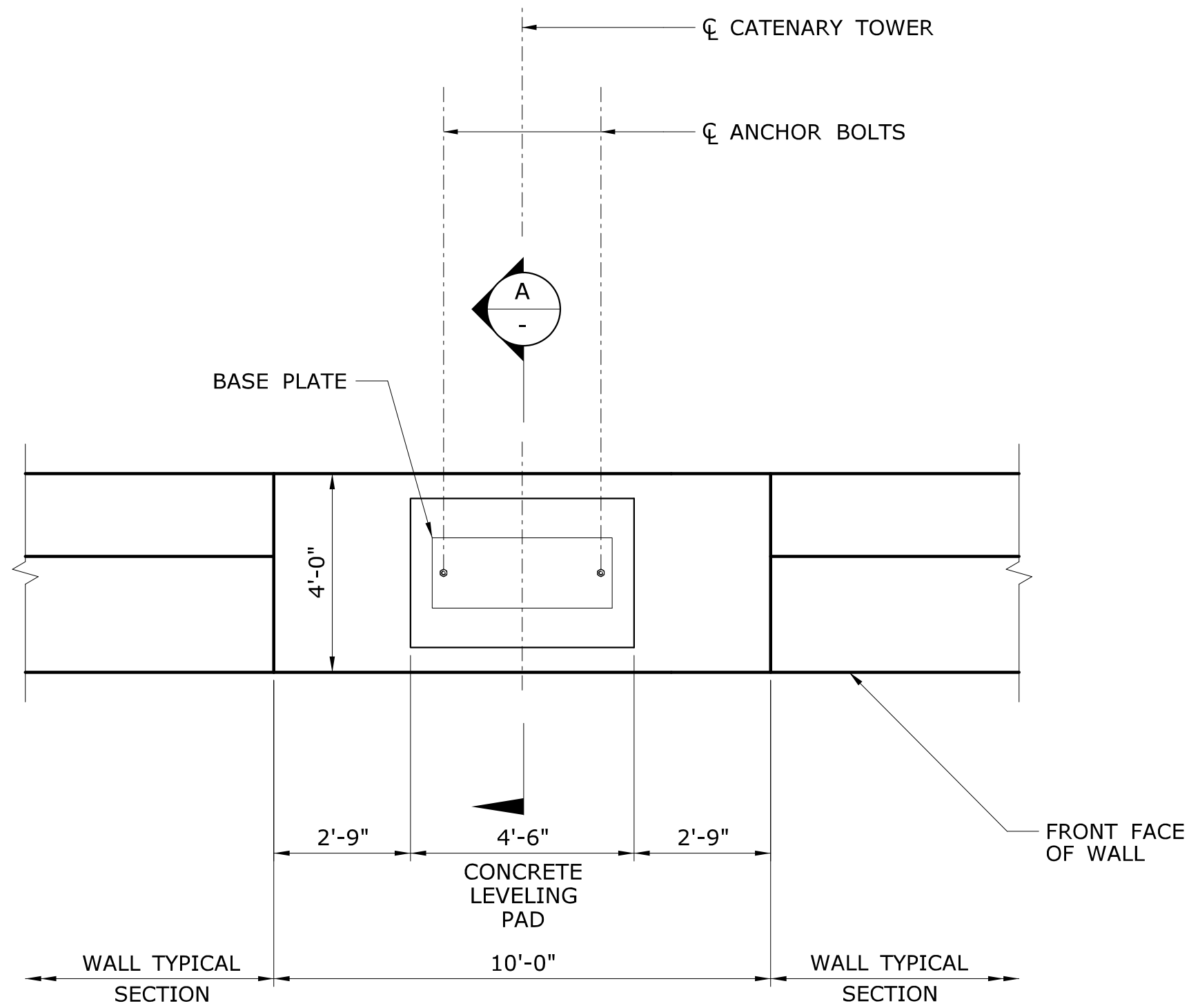


SECTION
N.T.S.

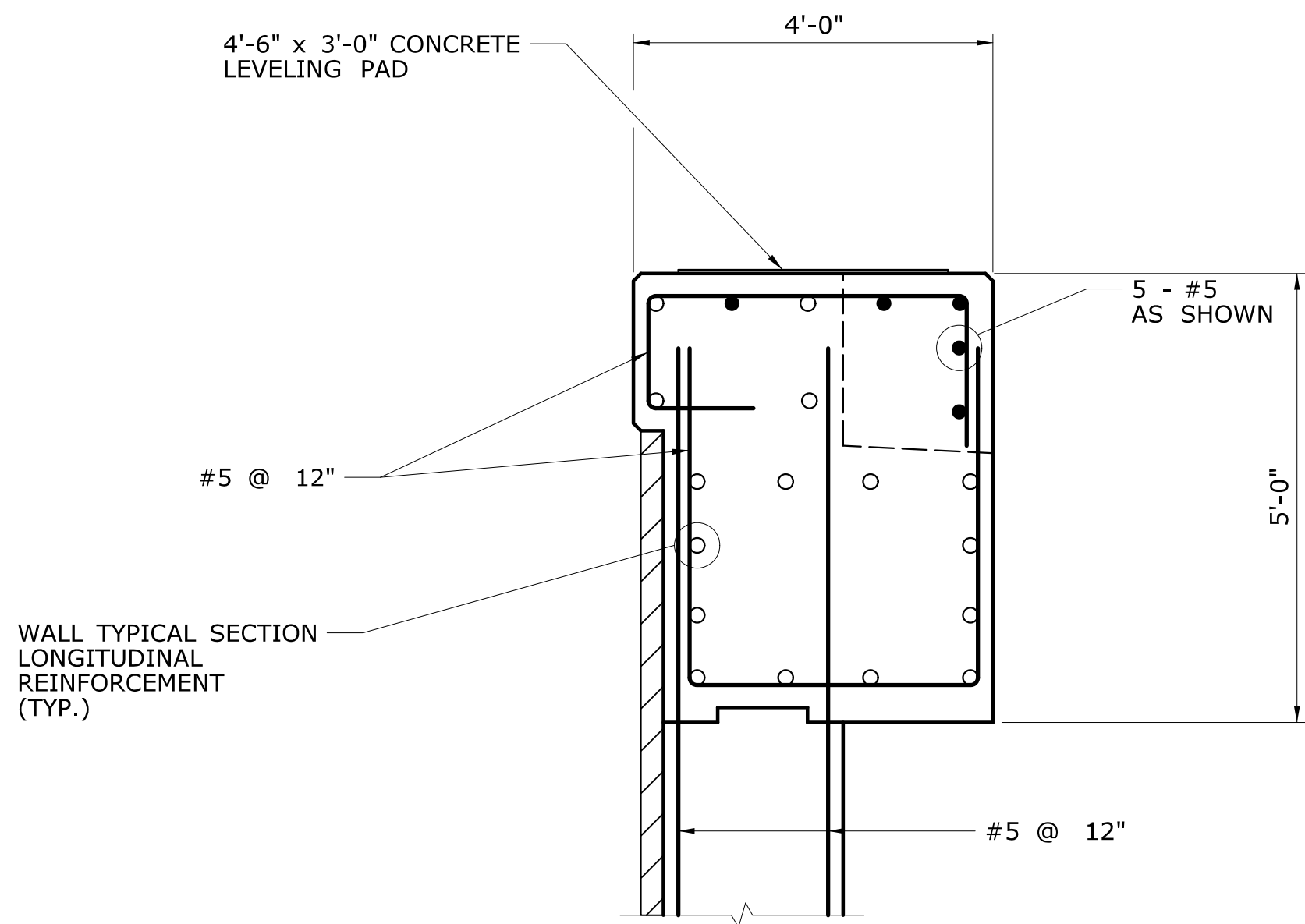
FORM LINER DETAIL
SCALE: N.T.S.

FINAL PLANS FOR REVIEW

			THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: K. BARKER CHECKED BY: J. IVES SCALE AS NOTED	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION <small>Filename: ...\\SB_MSH-Br08012R_0135_0301_W106-8.dgn</small>	SIGNATURE/ BLOCK:	PROJECT TITLE: REPLACEMENT OF MNRR BRIDGE OVER ATLANTIC STREET PHASE 2	TOWN: STAMFORD DRAWING TITLE: RETAINING WALL 106 WALL DETAILS - 4	PROJECT NO. 135-301 DRAWING NO. RW-08 SHEET NO. 01.07.008
REV.	DATE	REVISION DESCRIPTION							



PLAN
SCALE: $\frac{3}{8}$ " = 1'-0"




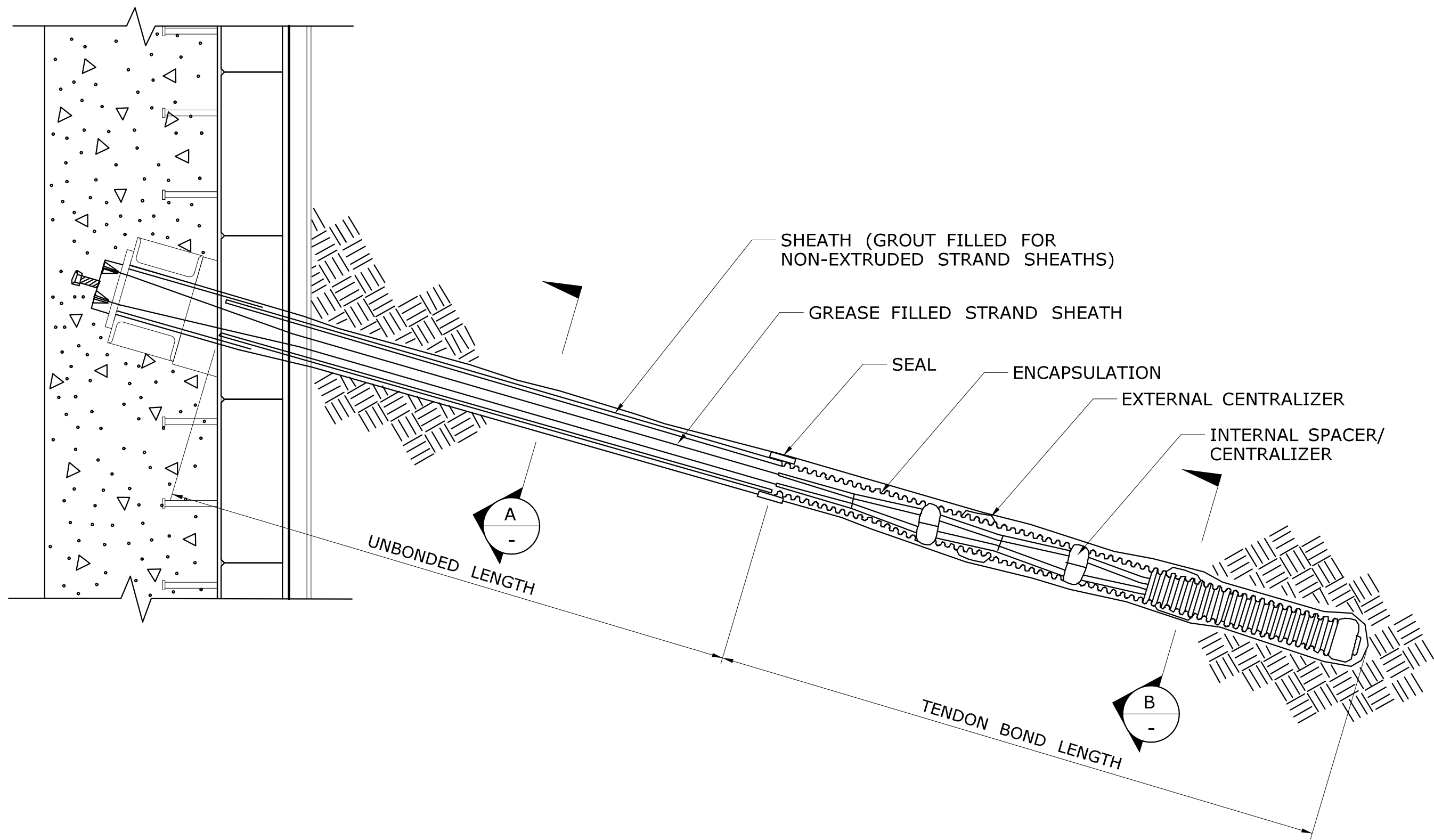
A SECTION
SCALE: $\frac{3}{4}$ " = 1'-0"

NOTE: SEE RAILROAD DRAWINGS LOCATED IN VOLUME XX, SUBSET XX FOR ANCHOR BOLT AND TOP OF LEVELING PAD ELEVATION.

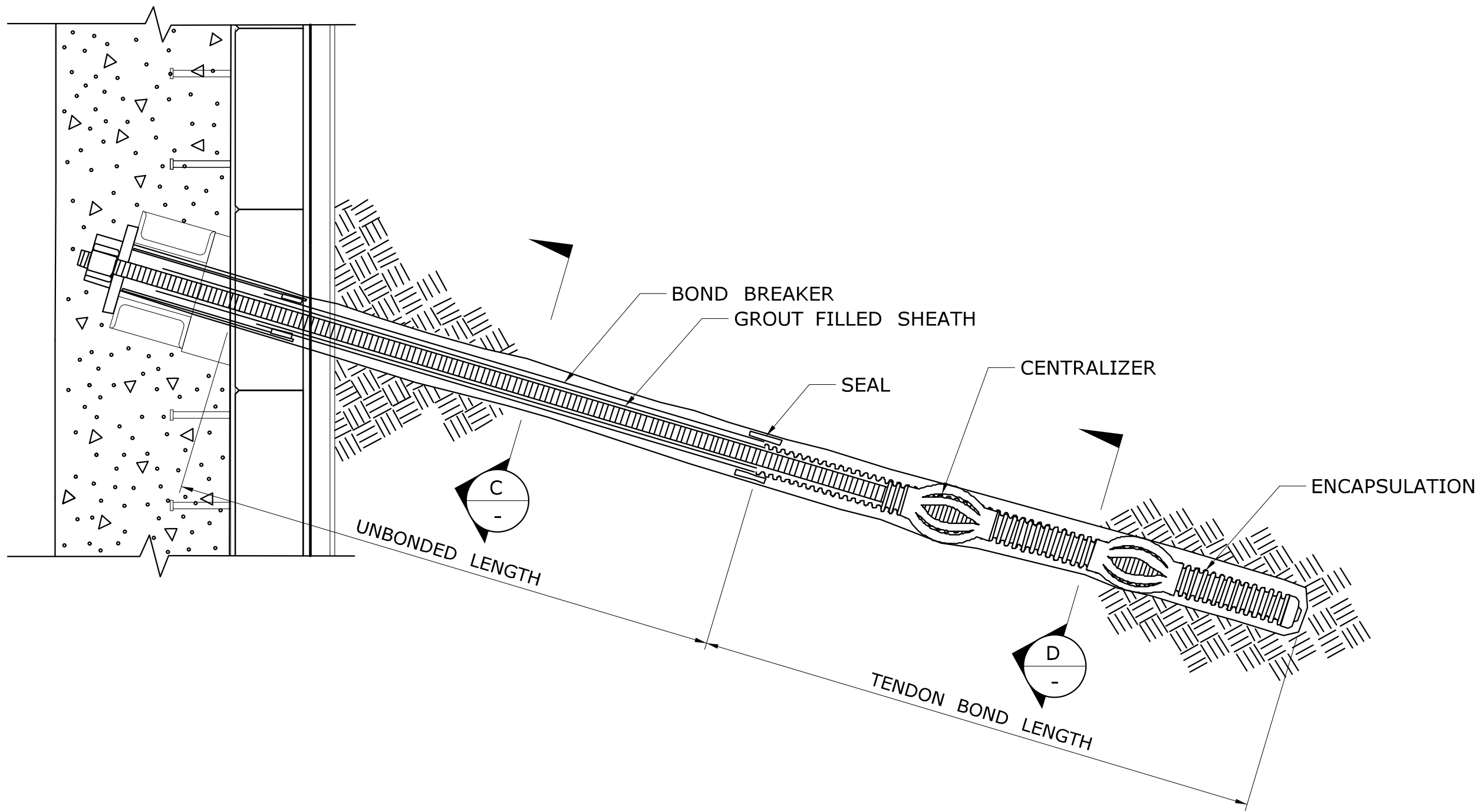
TOP OF WALL DETAIL AT CATENARY TOWER

FINAL PLANS FOR REVIEW

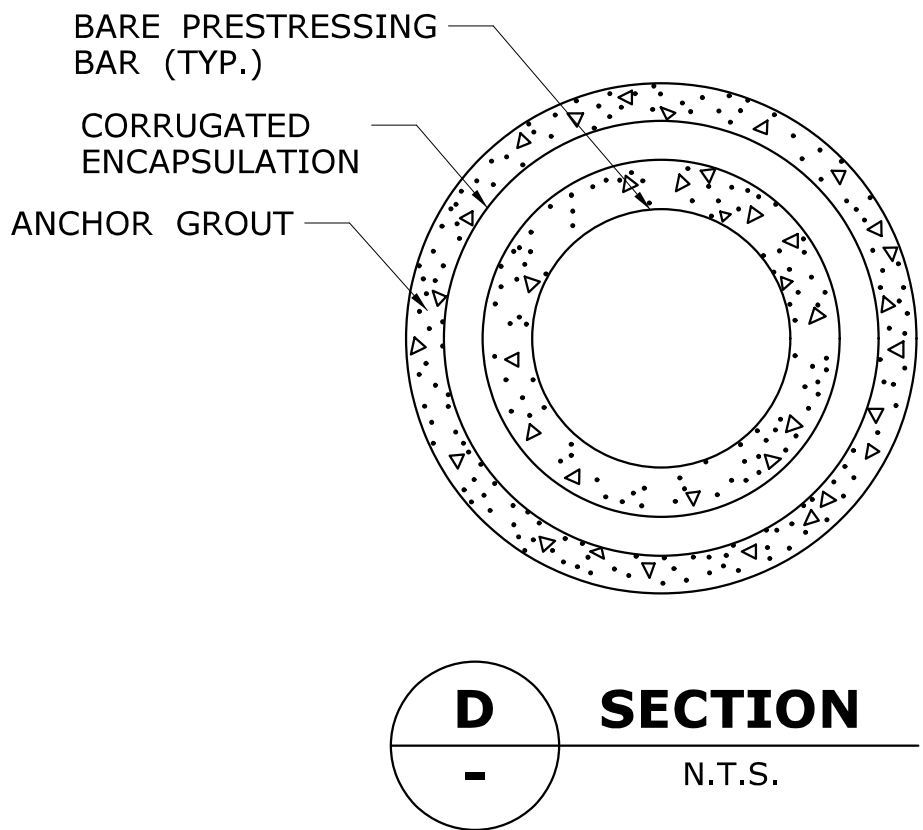
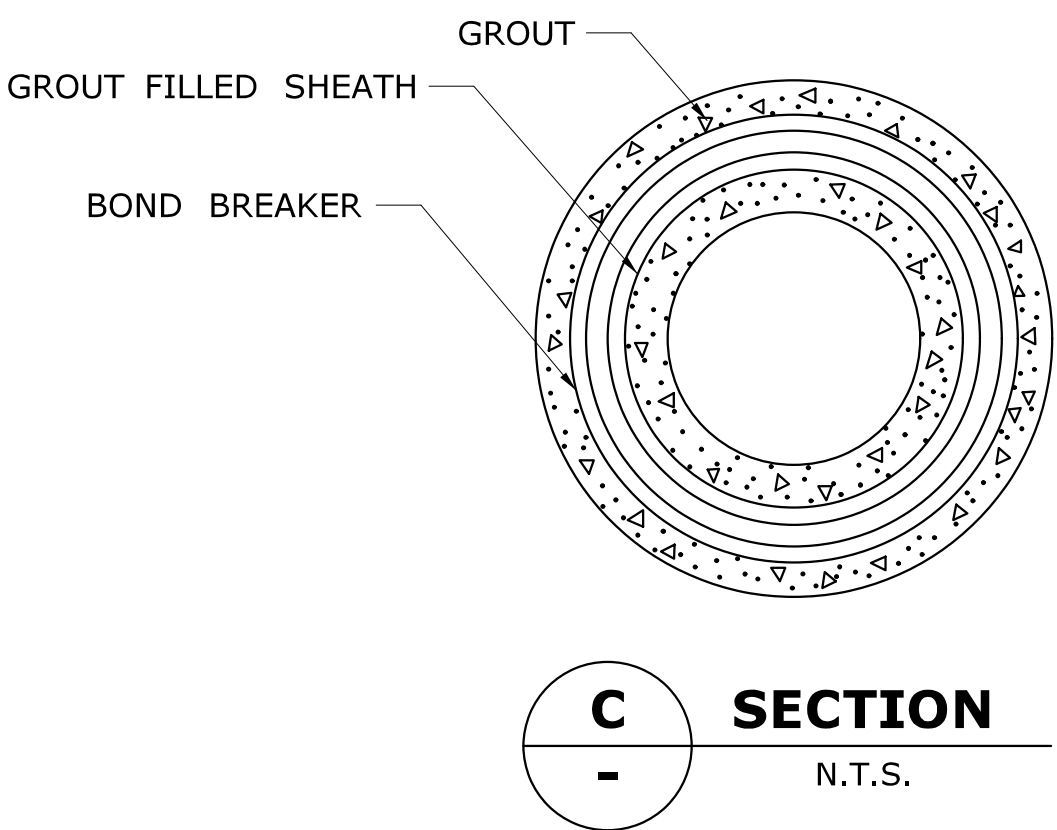
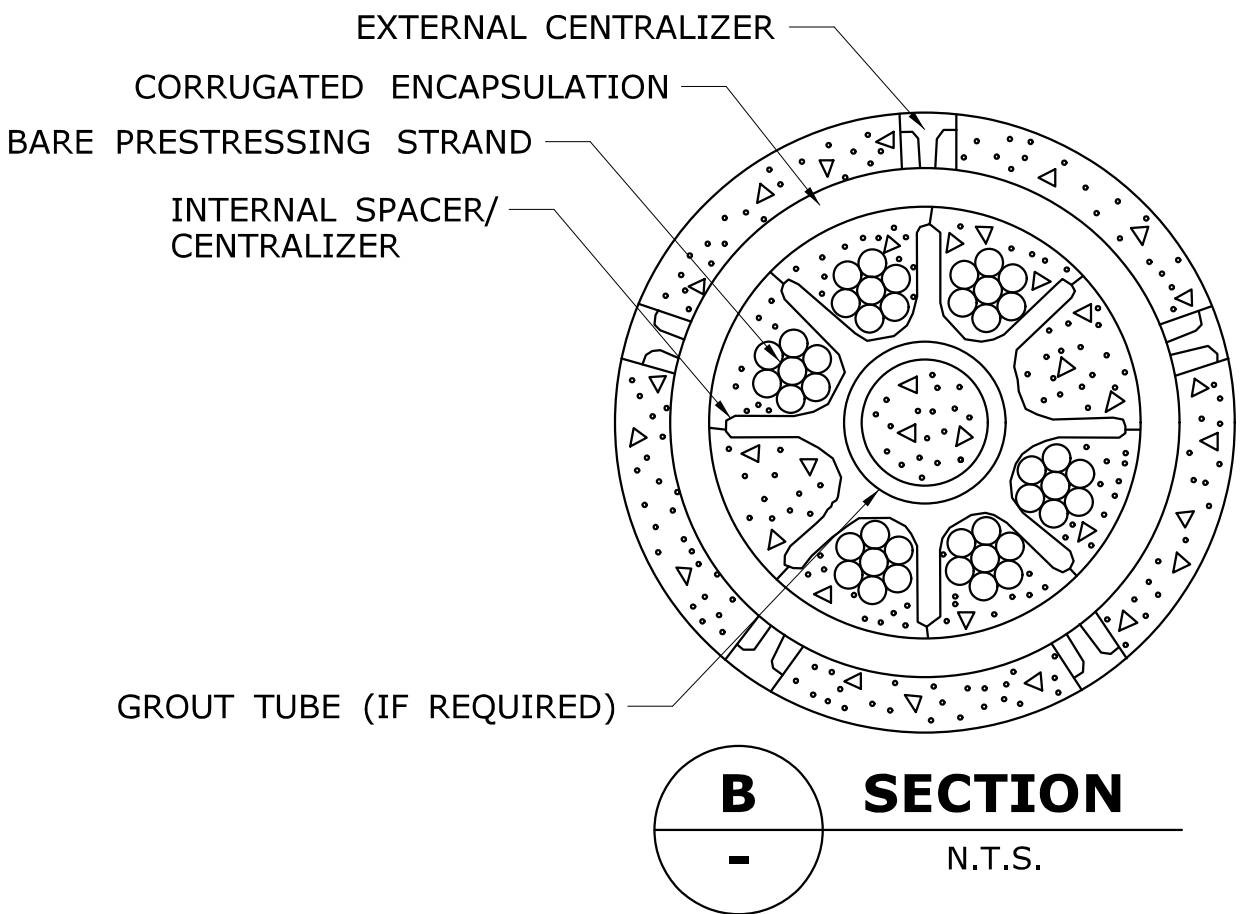
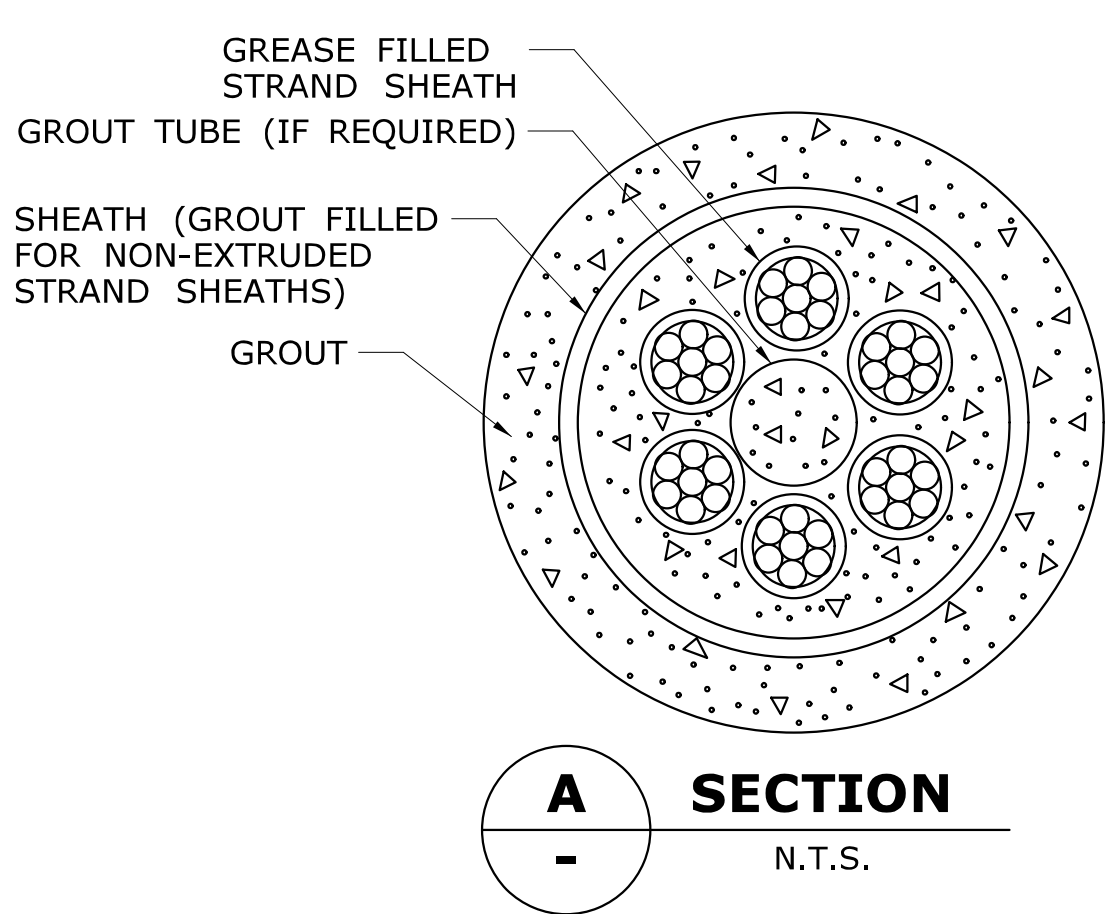
	-		-	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: K. BARKER CHECKED BY: J. IVES SCALE AS NOTED	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION Filename: ...\\SB_MSH-Br08012R_0135_0301-W106-9.dgn	SIGNATURE/ BLOCK:	PROJECT TITLE: REPLACEMENT OF MNRR BRIDGE OVER ATLANTIC STREET PHASE 2	TOWN: STAMFORD	PROJECT NO. 135-301
	-		-							DRAWING NO. RW-09
	-		-							SHEET NO. 01.07.009
	-		-							
	-		-							
	-		-							
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 3/28/2016						



STRAND TENDON
N.T.S.



BAR TENDON
N.T.S.



GROUND ANCHOR CLASS I PROTECTION DETAILS
N.T.S.



FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 3/28/2016

DESIGNER/DRAFTER:
K. BARKER
CHECKED BY:
J. IVES
SCALE AS NOTED

**STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION**

Filename: ...\\SB_MSH_Br08012R_0135_0301_W106-10.dgn

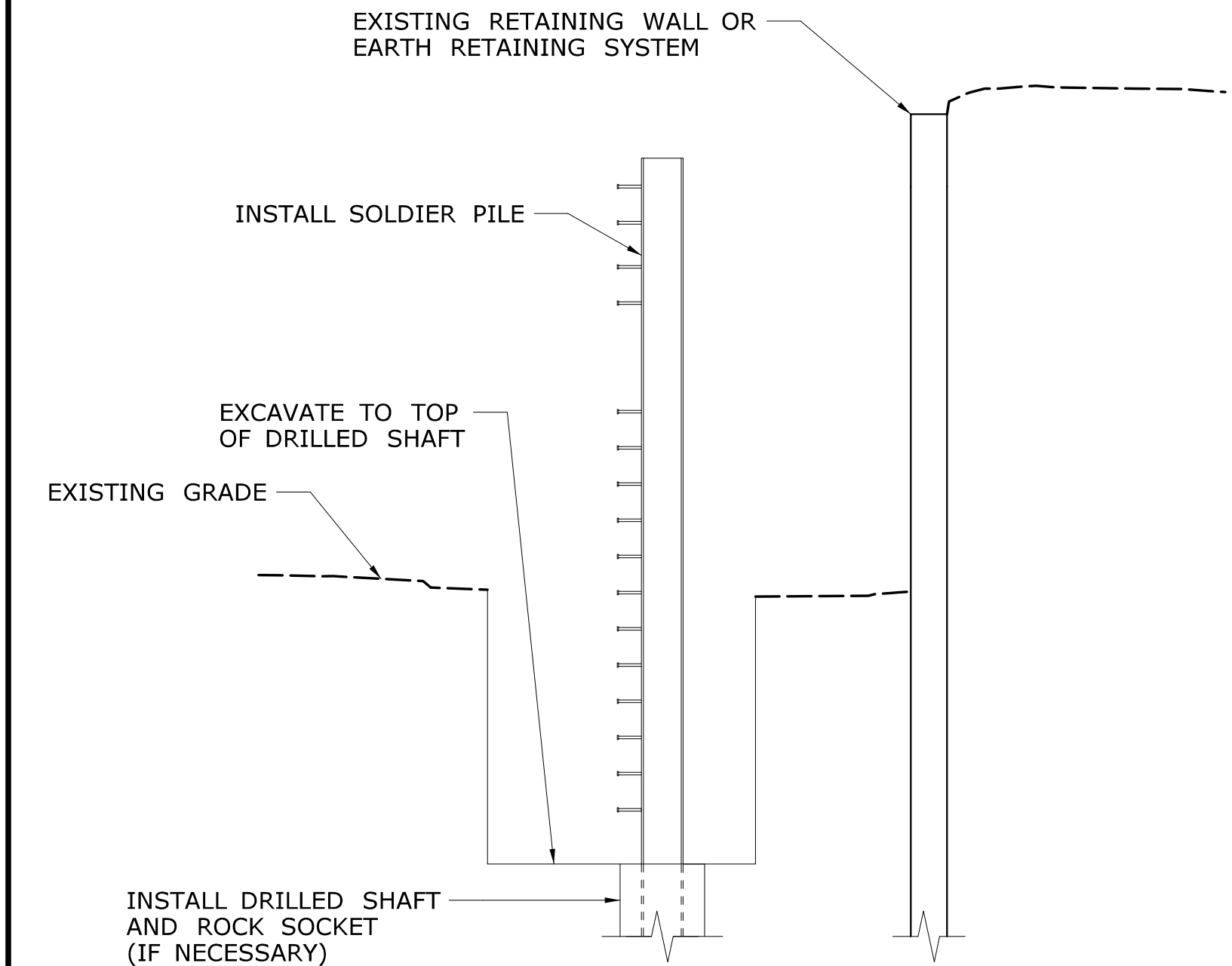
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PROJECT TITLE:
**REPLACEMENT OF MNRR BRIDGE
OVER ATLANTIC STREET
PHASE 2**

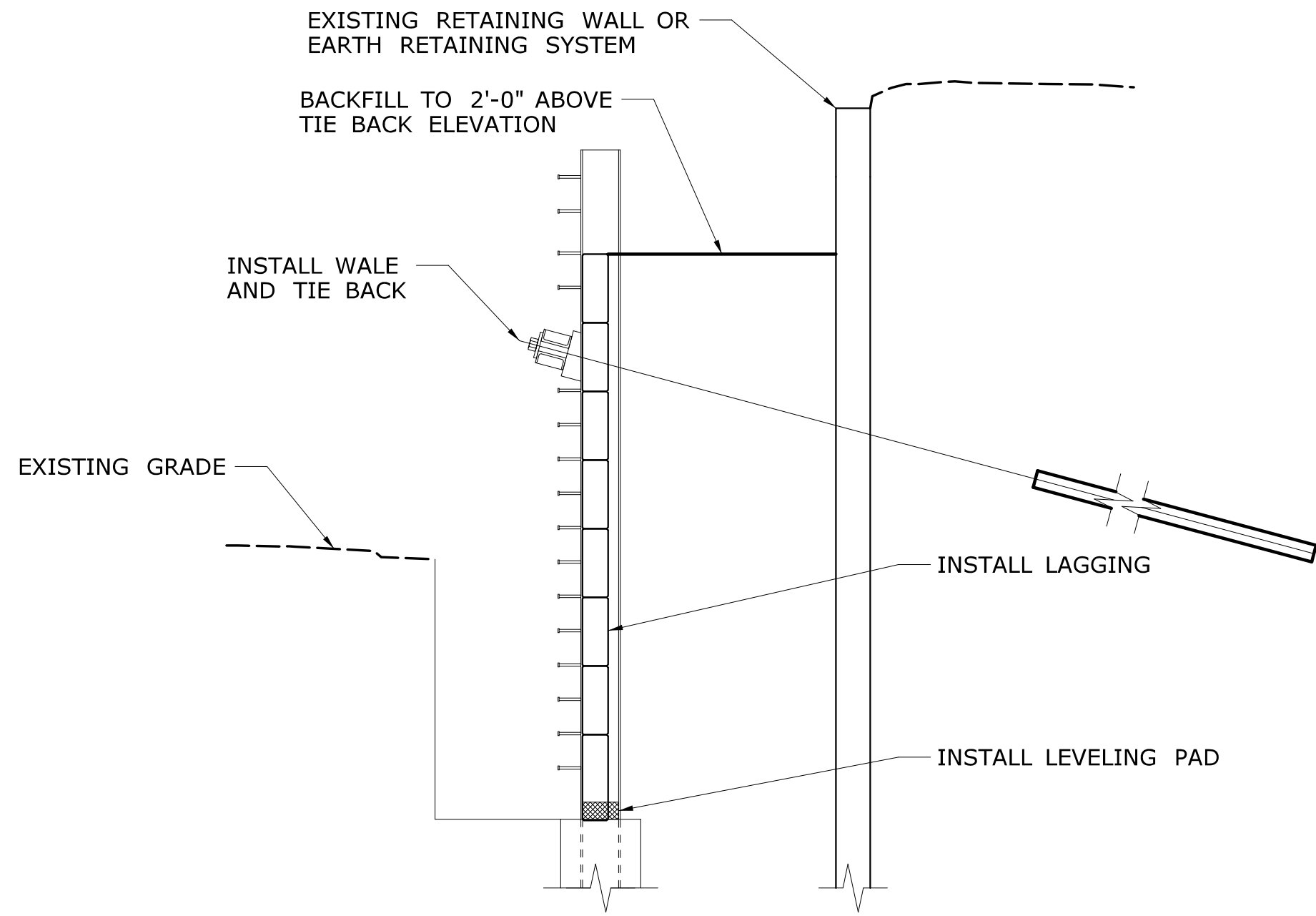
TOWN:
STAMFORD
DRAWING TITLE:
**RETAINING WALL 106
WALL DETAILS - 6**

PROJECT NO.
135-301
DRAWING NO.
RW-10
SHEET NO.
01.07.010

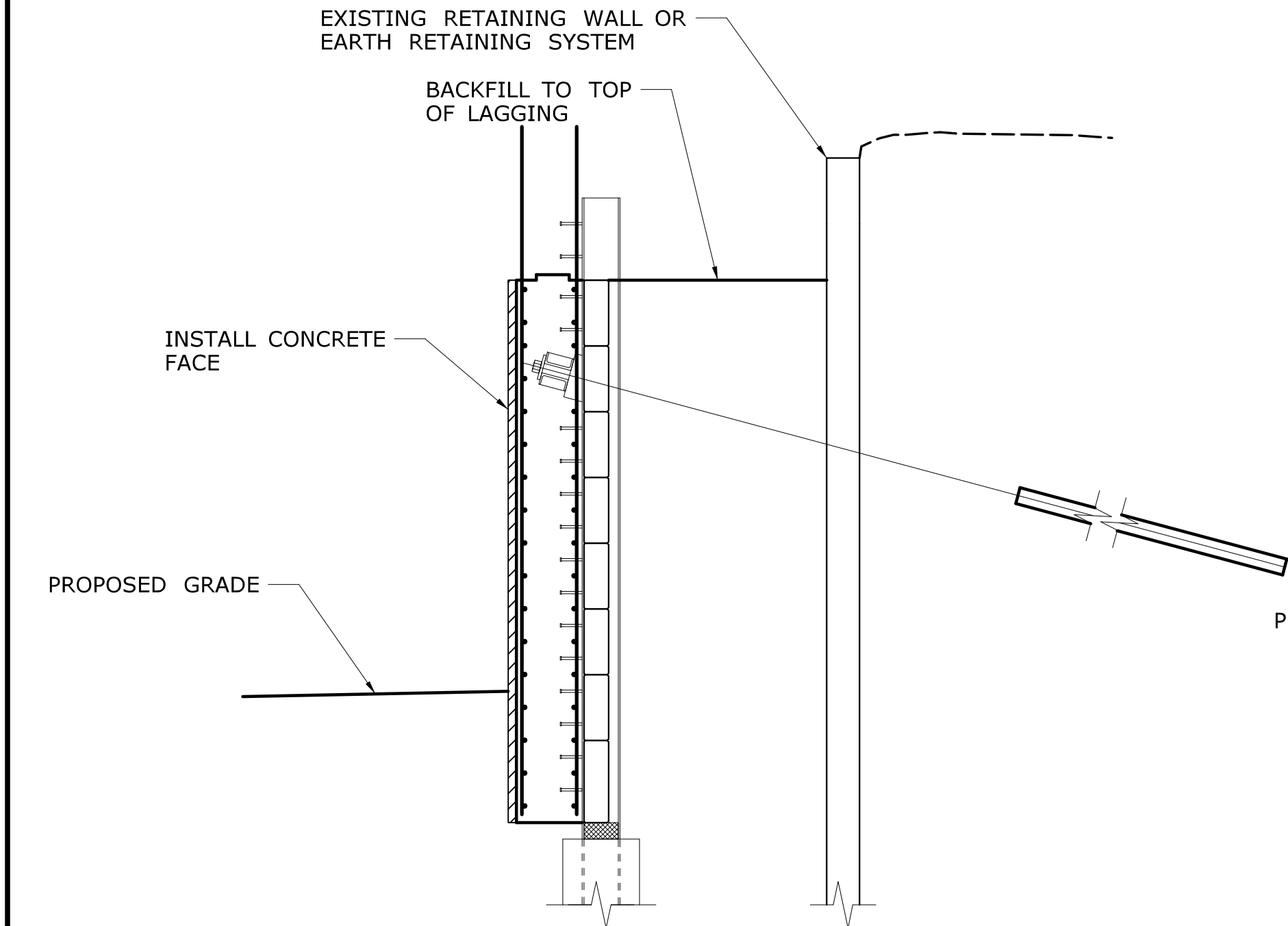
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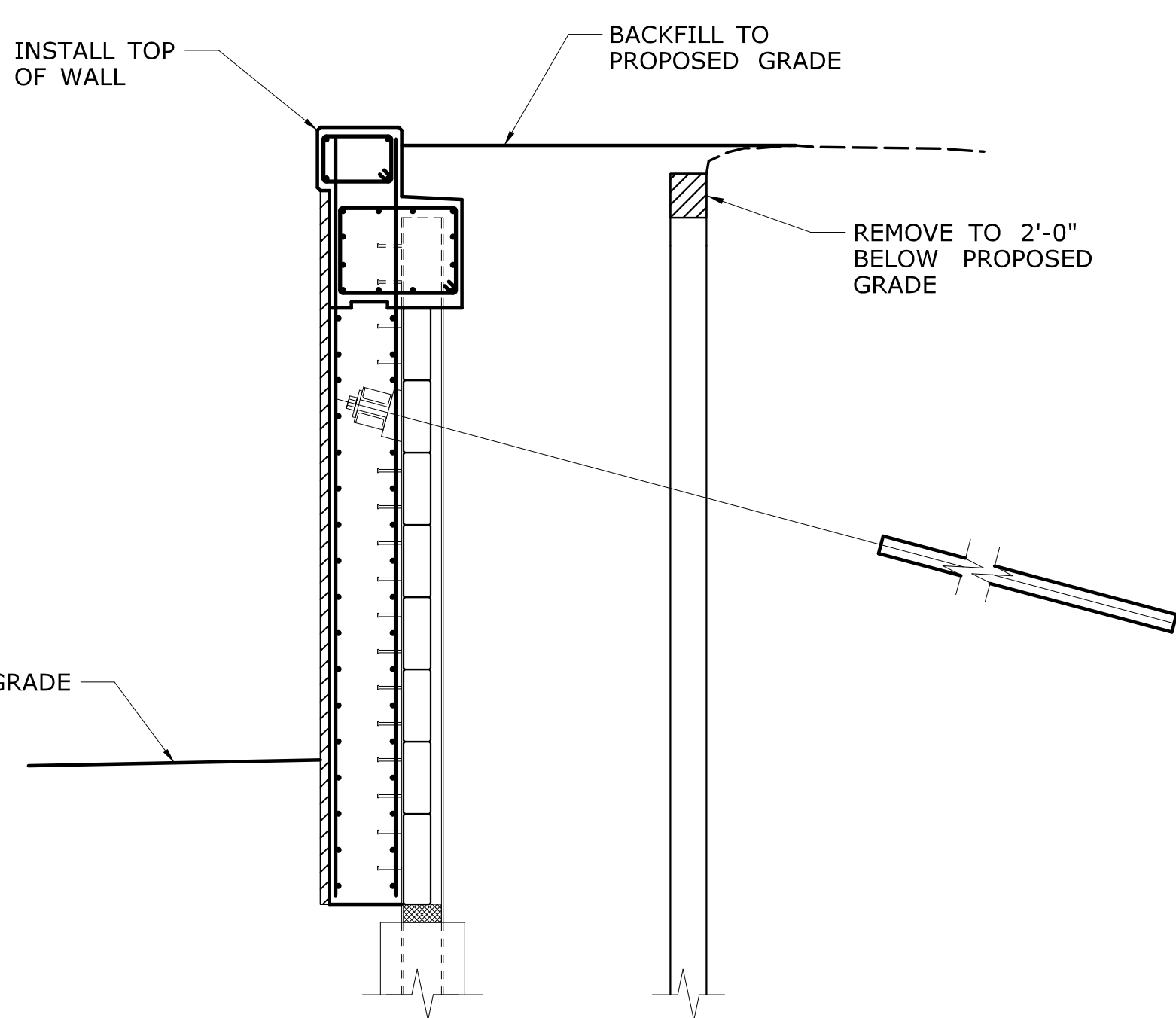
STAGE A
N.T.S.



STAGE B
N.T.S.



STAGE C
N.T.S.



STAGE D
N.T.S.

CONSTRUCTION SEQUENCE

- STAGE A
1. EXCAVATE TO TOP OF DRILLED SHAFT.
 2. CORE DRILLED SHAFT AND ROCK SOCKET (IF NECESSARY).
 3. INSTALL SOLDIER PILE IN DRILLED SHAFT AND ROCK SOCKET (IF NECESSARY).
 4. FILL DRILLED SHAFT AND ROCK SOCKET WITH PORTLAND CEMENT CONCRETE.
- STAGE B
1. INSTALL LEVELING PAD AND LAGGING AS SHOWN.
 2. BACKFILL TO 2'-0" ABOVE GROUND ANCHOR ELEVATION.
 3. INSTALL WALE AND GROUND ANCHORS
 4. TEST GROUND ANCHORS AS REQUIRED.
- STAGE C
1. BACKFILL TO TOP OF LAGGING.
 2. INSTALL CONCRETE FACE TO CONSTRUCTION JOINT AT TOP OF LAGGING.
- STAGE D
1. INSTALL TOP OF WALL.
 2. BACKFILL TO PROPOSED GRADE.

FINAL PLANS FOR REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 3/28/2016

DESIGNER/DRAFTER:
K. BARKER


CHECKED BY:
J. IVES

SCALE AS NOTED



STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\\SB_MSH_Br08012R_0135_0301_W106-11.dgn



SIGNATURE/
BLOCK:

PROJECT TITLE:
**REPLACEMENT OF MNRR BRIDGE
OVER ATLANTIC STREET
PHASE 2**

TOWN:
STAMFORD

DRAWING TITLE:
**RETAINING WALL 106
CONSTRUCTION SEQUENCE**

PROJECT NO.
135-301

DRAWING NO.
RW-11

SHEET NO.
01.07.011